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INDEX TO ADVERTISERS

Addis, R., & Son (Toothbrushes) .. 12	Briggs, A. E. ("Monoksnaps") .. 23	Ford, Shapland & Co., Ltd. (Printing) .. xviii
Agfa, Ltd. (Roll Films, &c.) .. 23	British Aluminium Co., Ltd. (Aluminium Containers) .. 8	Frankenberg, L. (Razor Blades) .. 20
Alcock Manfg. Co. (Plasters) .. xxvi	Brown & Son (Stills) .. 24	Franklin, J. G., & Son, Ltd. (Soothers, &c.) .. xxvi
Allen & Hanburys, Ltd. (Balsamic Skin Cream) .. Cover	Budnip, Ltd. (Powders) .. xii	Fulford, C. E., Ltd. (Zam-Buk) .. viii
Allen, Stafford, & Sons, Ltd. (Terpeneless Oils, &c.) .. 4	Burge, Warren & Ridgley, Ltd. (Surgical Rubber Goods) .. xxvii	Gardner, W., & Sons (Glos.), Ltd. (Machinery) .. 24
American Hard Rubber Co. (Britain), Ltd. (Ace Combs) .. 22	Burkett, Sharp & Co., Ltd. (Drugs, &c.) .. ii	General Optical Co. (Optical Supplies) xxx
Anglo-French Drug Co., Ltd. (Pharmaceutical Preps.) .. x	Burrough, J., Ltd. (Alcohol) Leader Page	George, Ernest J. (Valuer, &c.) Col. Supp.
Association of Manfg. Chemists, Ltd. Col. Supp.	Burroughs Wellcome & Co. (Photographic Chemicals) .. 29	Gilmont Products, Ltd. (New Mix Tooth Paste) .. 9
Autoway Co. (Weighing Machines) .. 19	Butywave Co. (Toilet Preps.) .. 16	Glass Products, Ltd. (Bottles, &c.) .. 10
Ayrton, Sanderson & Co., Ltd. (Wholesale Druggists) .. 15	Cataline Co. (Veterinary Medicines) .. 25	Gold Seal Proprietaries, Ltd. (Golden Egg Shampoo) .. 26
Baker Metal Stopper Co., Ltd. (Screw Caps, &c.) .. xxvi	Christy, T., & Co. (Cucumel, So-it-is Denture Powder) .. 26-30	Gollin & Co. Pty., Ltd. ("Aspro") ix
Balneo Products (London), Ltd. (Kissingen Salts, &c.) .. xii	Clayton, Wm., Ltd. ("Zip" Brand Products) .. xi	Gower, John (Books) .. Col. Supp.
Bandoeng Quinine Factories .. vii	Cromessol Co. (Disinfectant Sprays) .. xii	Grout & Co., Ltd. (Crêpe Bandages) xxvi
Barker, R., & Son, Ltd. (Infants' Preservative) .. xvi	Dearborn (1923), Ltd. (Toilet Preps.) 21	Hackett, S. E. (Film Overstocks) Col. Supp.
Battle, J. C. M. (Vermin Killer) .. 23	Debacq & Harrop (Toilet Preps.) .. 20	Haller & Phillips, Ltd. (Glycerine) iv
Beechams Pills, Ltd. (Beechams Pills, &c.) .. xii	Dee Oil Co., Ltd. (Petroleum Jelly) xxi	Hampshire, F. W., & Co., Ltd. (Wasp Flyband, &c.) .. 25-xiii
Bell, John, Hills & Lucas, Ltd. (Pharm. Preps.) .. 26	Deshell Laboratories, Ltd. (Petrol-agar) .. x	Harper, C. W. (Bottles) .. 26
Benckiser, Joh. A. (Tartaric Acid) vii	Dick, W. B., & Co., Ltd. (Liquid Paraffin) .. xxiii	Haywood, J. H., Ltd. (Surgical Appliances) .. xxvii
Benger's Food, Ltd. (Foods) .. 30	Dickeson, R., & Co. (Besorbon) .. x	Henry, T. & W. (Calcined Magnesia) x
Bengué & Co., Ltd. (Bengué's Balsam) viii	Dubarry et Cie (Gift Sets) .. Cover	Holl, Karl (Screw Caps, &c.) .. xxvi
Berdoe & Fish (Valuers, &c.) Col. Supp.	Dudley & Co., Ltd. (Display Stands, &c.) .. 23-xxi	Hubbuck, T., & Son, Ltd. (Oxide of Zinc) .. iii
Berg, E., Ltd. (Shopfittings) Col. Supp.	Eno, J. C., Ltd. (Williams Shaving Stick) .. i	Iglodine Co., Ltd. (Iglodine) .. xi
Berk, F. W., & Co., Ltd. (Chemicals) iv	Fairchild Bros. & Foster (Pepsin) Leader Page	Irving's Yeast Vite, Ltd. .. viii
Blackwell, Hayes & Co., Ltd. (Fruit Essences, &c.) .. xii	Faire Bros. & Co., Ltd. (Powder Puffs) 18	Jackson, Ernest, & Co., Ltd. (Gloss-ettes) .. viii
Bob Martin, Ltd. (Dog Medicines, &c.) .. 23	Fairy Dyes, Ltd. (Home Dyes) .. xxii	Johnson & Sons Mfg. Chemists, Ltd. (Galenicals, &c.) .. iii
Borax Consolidated, Ltd. (Borax) .. vi	Fassett & Johnson, Ltd. (Meads Plasters) .. xxv	Josephs, Philip, & Sons, Ltd. (Shop-fittings) .. Col. Supp.
Box 155/483, Peppermint Oil .. 12	Fellows Medical Manfg. Co., Inc. (Fellows Syrup) .. xvi	Kerfoot, T., & Co., Ltd. (Emulsion Pastilles) .. 17
Box 492, Smith's Advtg. Agency, Ltd. Col. Supp.	Ferris & Co., Ltd. (Nepenthe) .. xli	King, J. C., Ltd. (Showcases) .. 14
Bredt, W. (Dr. Thilo's Preps.) .. vi	Fink, F., & Co. (Gums) .. 26	

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INDEX cont.	
Lautier Fils, Ltd. (Ess. Oils)	12
Levermore, A., & Co., Ltd. (Precipitated Chalk)	26
Lincoln & Midland Counties Drug Co., Ltd. (Clarke's Blood Mixture, &c.)	xlii
Loffthouse & Saltmer, Ltd. (Tablets)	xiv
London College of Pharmacy	xxviii
Lorimer-Marshall, Ltd. (Toilet Powder)	21
Marsden, C. C. (Valuer, &c.) .. Col. Supp.	
Marshall, C. F., & Son (Dental Plate Brushes, &c.)	22
Martin, Bob, Ltd. (Dog Medicines, &c.)	23
Mason Pearson Selling Agency, Ltd. ..	16
Matthews, D., & Sons (Shopfittings) .. Col. Supp.	
Matthews Laboratories, Ltd. (Sterilla Surgical Soap)	Leader Page
Maw, S., Son & Sons, Ltd.	11
Mead, Ltd. (Portable Typewriters) ..	14-xxiii
Meade-King, Robinson & Co., Ltd. (Petroleum Jelly, &c.)	xx
Merchant Venturers College, Bristol ..	xxviii
Midgley & Parkinson, Ltd. (Yeast Preps.)	xvi
Millar, A., & Co., Ltd. (Orange Wine) ..	xvi
Morny Freres, Ltd. (Toilet Preps.) Cover	
Muir, W. S., & Co., Ltd. (Transparent Paper)	7
National Union of Drug & Chemical Workers	Col. Supp.
Newbery, F., & Sons, Ltd. (Druggists' Sundries)	xlii
New Era Treatment Co. ("Elasto") ..	5
Northern Polytechnic Institute	26
Norwegian Cod Liver Oil	xix
Oppenheimer, Son & Co., Ltd. (Robo-leine)	8
Orridge & Co. (Valuers, &c.) .. Col. Supp.	
Parfums Marcel Guerlain, Ltd. (Toilet Preps.)	16
Parke, Davis & Co. (Neko Soap)	13
Perry & Hope, Ltd. (Phosphate of Soda)	xiv
Pharmaceutical Formulas	3
Pharmaceutical Lanoline Co.	xx
Phosferine (Ashton & Parsons), Ltd.	xxix
Pifco, Ltd. (Electric Lamps, &c.)	14
Plasmon, Ltd. (Plasmona)	xvii
Poth Hille & Co. (Ceresine Wax) ..	xx
Potter & Clarke, Ltd. (Wholesale Druggists)	27
Poulton, H. J. (Glassware)	26
Promonta Co., Ltd. (Tonic Food) ..	xvii
Proprietary Agencies, Ltd. (Milk of Magnesia)	30
Reed, A. E., & Co. (Glycerine)	iv
Riley, J., & Sons, Ltd. (Hypo)	iv
Rippin, A. J., Ltd. (Drugs)	vi
Rivista Italiana delle Essenze e Profumi	xviii
Roberts' Patent Filling Machine Co. ..	24
Robinson & Sons, Ltd. (Boxes, Cartons, &c.)	10-xxviii
Roebuck's Advertising Service (Wanle Blades)	18
Rooney, R. A., & Sons (Toilet Brushes)	22
Rowland, A., & Sons, Ltd. (Macassar Oil)	20
Rudduck & Co. (Shopfittings) Col. Supp.	
Saint Raphael Cie (Tonic Wine) ..	xviii
Sangers (Toilet Preps.)	20
Scruton, O., & Co. (Nurse Harvey's Mixture)	26
Scurr, C. A. (Optical Tuition)	xxviii
Shadeine Co. (Hair Dyes)	26
Sherley, A. F., & Co., Ltd. (Dog and Cat Medicines)	25
Sim, Ltd. (Ampoule Files)	vi
Singleton & Cole, Ltd. (Tobacco Wholesalers)	xxvii
Sitora Refining Co., Ltd. (Liquid Paraffin, &c.)	xxii
Smith, Martin H., Co. (Ergoapiol) ..	xiv
Smith, T. & H., Ltd. (Chemicals) ..	ii
Spicer, E. H., & Co., Ltd. (Elixir of Ephedrine)	xi
Sterns, Ltd. (Oils, Petroleum, &c.) ..	xxi
Stewart, Goodall & Duulop, Ltd. (Nuctone)	22
Summer's Typhoo Tea, Ltd. Leader Page	
Sunshine Remedies, Ltd. (Toilet Preps., &c.)	18
Surgical Hosiery Co., Ltd.	xxiv
Sutley & Silverlock, Ltd. (Printers)	xxii
Tatcho Tone Co. (Hair Preps.)	26
Teasdales Chlorodyne Co. (Phelps Brown's Herbal Remedies)	xiv
Tennants (Lancs.), Ltd. (Chemicals) ..	ii
Thompson & Capper Wholesale, Ltd. (Cornol)	xxvii
Thornton & Ross, Ltd. ("Zoflora" Spraying Essence)	xiv
Tolkien, C., & Co., Ltd. (Malt and Oil) ..	6
Tomlinson & Hayward, Ltd. (Seed Dressings, &c.)	24
United Chemists' Association, Ltd. (Health Salts)	xv
United Photographers, Ltd. (Developing, &c.)	2
Vernon & Co., Ltd. (Surgical Dressings)	xxiv
Von Heyden, Chemische Fabrik (Chemicals)	vii
Wagner, R. V. (Bottle Caps)	24
Warrington Chemical & Drug Co., Ltd. ..	ii
Washington Chemical Co., Ltd. (Pat-tinson's Magnesia)	v
Webster, T., & Co., Ltd. (Stoppers)	xxiii
Westminster College of Pharmacy	xxviii
Whitaker & Co. (Hat Dyes, House-hold Dyes)	28
White, Tomkins & Courage, Ltd. (Oil of Lemon, &c.)	12
Wigglesworth, Ltd. (Packed Goods) ..	1
Williamson Bros., Ltd. (Powder Puffs) ..	18
Winchester Manfg. Co., Ltd. ("Wimaco" Surgical Goods) ..	xxvii
Wright, Layman & Umney, Ltd. (Perfume Concentrates, &c.)	Cover
Yadil Products (1925), Ltd.	xi
Zeal, G. H., Ltd. (Clinicals)	xxxi

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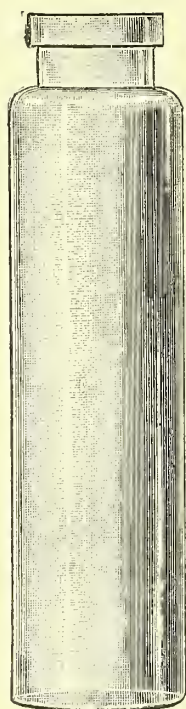
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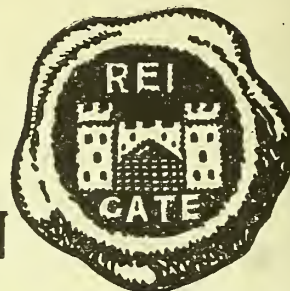
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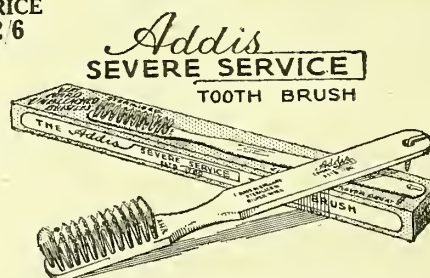
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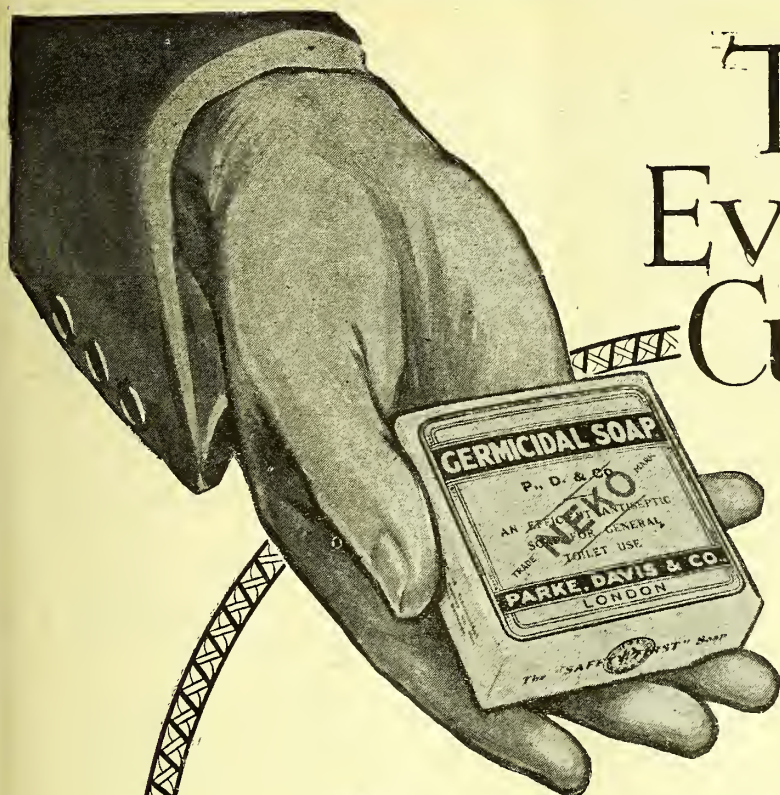
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(Germicidal Soap P.D.&C^o)

'NEKO' may be sold as
A Dandruff Preventive
A Perspiration Deodorant
An Antiseptic Skin Soap
A Parasiticide
A Sick-room Disinfectant
A Foot Soap

'NEKO' contains mercuric iodide and may be sold by qualified chemists only. As a bactericide it is thirty times as powerful as phenol.

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Here is a new and vast market, and the cream is still untouched.

We have a unique range of Flashlights at keen prices.

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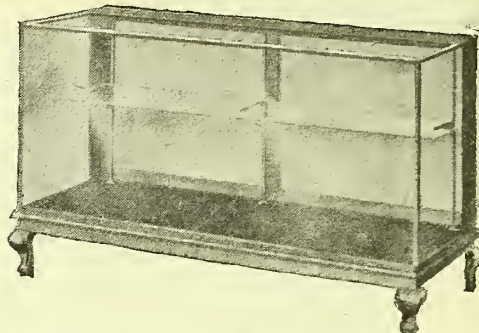
We will deliver you a complete starting range, value £10 nett, on three months' credit.

Order now and write for new illustrated catalogue.

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No. D.S.I. Solid oak or mahogany frame glass counter. First quality drawn plate glass front, top and sides, with two clear glass sliding doors at back. Interior fitted with standard bars and brackets and one row of plate glass shelves, polished all round. Size over all: 6 feet long x 3 feet high x 2 feet back to front.

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Ex works.

Insured free in transit.

This showcase can be supplied on a first payment of

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Send at once for full list No. 1013 post free.

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Complete with Case and Accessories.

Guaranteed for 2 Years.

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In order that you may be convinced of its immense superiority we are prepared to send a Mead Portable for Free Trial in your own home or office without any obligation to purchase. Write for Illustrated Booklet P.52.

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The General Drug Trade is not aware of the enormous trade in Toilet Rolls which can be had for the asking.

How to ask!

Most chemists wait to be asked for Toilet Rolls. Try putting a mass display in the window during the awkward time between taking out the old window and assembling the goods for the new display. Keep always a bold pile on the floor, or tiered on an out-of-the-way portion of the counter—in fact, anywhere—but never forget a prominent price card with popular prices—4½d., 6d., 7½d.

Let every Toilet Roll you sell advertise your name

Brand mark or name on one gross or more of any Toilet Roll.

LIST OF PRICES:

TOILET PAPER, in-rolls.	List No.	Per doz.	6 doz.	1 gross.	2 gross
"Hygienic"	26/1264	3/6	3/4½	36/-	34/6
"Club"	—	4/-	3/10½	42/-	40/-
"Sanitary"	—	4/-	3/10½	42/-	40/-
"Unico"	26/1269	4/6	4/3	48/-	46/-
"Lotus"	*26/1274	3/9	3/6	39/-	36/-
"Sanico"	26/1272	4/6	4/4½	51/-	49/6
"Popular"	—	4/6	4/4½	51/-	49/6
"No. 1 Thin"	*26/1273	5/-	4/9	54/-	52/6
"St. George"	26/1268	5/6	5/3	60/-	57/-
"Pine"	*26/1267	5/9	5/6	63/-	61/-
"Bronco"	26/1273	6/10	6/8	78/-	76/-
"Mikado"	26/1266	7/6	7/3	84/-	83/-
"Vel Vel" (Papier de Luxe)	*26/1271	6/-	5/10½	69/-	67/6

* Popular Sellers.

TOILET PAPER, in Packets.					
"Mikado"	26/1277	7/9	—	—	—
"Japanese"	26/1275	6/-	5/9	5/6	—
"Nem Com"	—	5/-	4/9	4/6	—
Packets in patent leather-board holder	—	5/6	5/3	5/-	—

TOILET FIXTURES.

All metal (List No. 26/1276)	Per doz.	7/9
Metal holder on wood mount (List No. 26/1278)	"	15/-
White enamelled wood	"	8/-

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**THE BRUSH YOU CAN SELL
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There is always a constant and regular demand for the "MASON PEARSON" Hair Brush, because it always gives satisfaction, and one satisfied customer recommends it to many friends!

The "MASON PEARSON" is not only the original pneumatic Hair Brush, but—it is still the best—and is the largest-selling Hair-Brush to-day!

The range of models and colours enables you to recommend the "MASON PEARSON" for every hair brushing need, and for every individual taste.

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SELLING PRICES:

"Pocket" - - 3/6
"Shingle" - - 4/9

—two small dainty brushes for occasional use during the day. Other full size brushes for Home use are:

"Universal" - - 5/9
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All subject to generous discounts.
Supplies can be obtained from your usual Wholesaler.

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HIGH CLASS LINES IN GREAT DEMAND
VERY PROFITABLE TRADE TERMS

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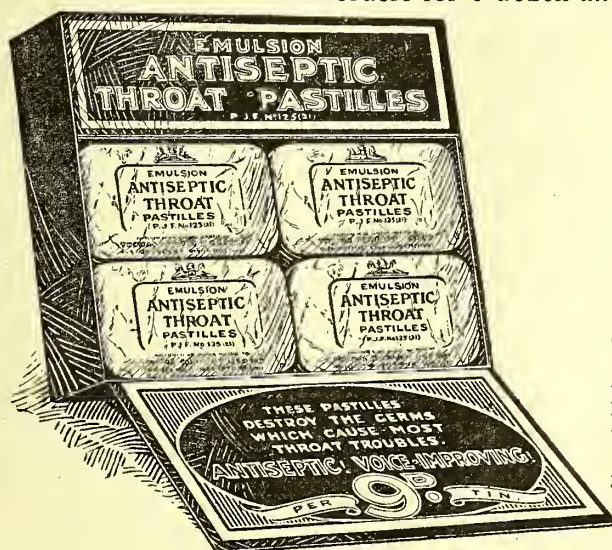


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The "Marble" Tin Series

IT pays to display and recommend Emulsion Pastilles in "Marble" tins — to associate them definitely with your own pharmacy. The quality of the pastilles themselves is vouched for by many years of consistent popularity. The pack is exceptionally attractive and your customers will appreciate the evident care in presentation which is the outward and visible sign of extra care in preparation. The *minimum* profit is nearly 40% on selling price. In harmony with the display outer illustrated, a striking counter showstand is available with orders for 6 dozen and upwards.



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ANTISEPTIC THROAT
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BRONCHIAL :: ::
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GLYCERINE &
BLACKBERRY
MENTHOL :: ::
MENTHOL &
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The display outer, designed and lettered in black, white and gold.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool

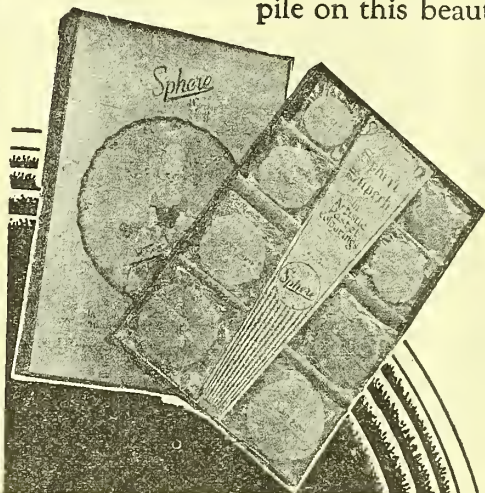
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BARDSLEY VALE, LANCASHIRE,
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ESTABLISHED 1797.

D/252

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SPHERE SUPERB POWDER PUFF

A new Puff made of Sylkie-down Velour. The pile on this beautiful puff is produced in such a way as to retain just sufficient powder to enable the user to apply it smoothly and evenly, without streaks, as is the case with coarser materials.



Supplied in assorted colours and sizes.

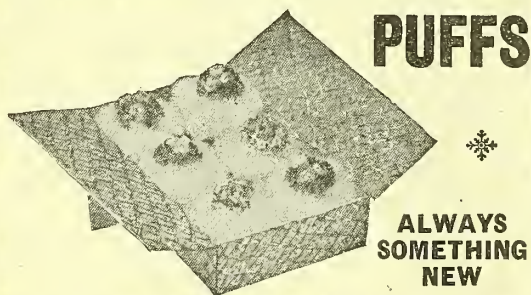
ATTRACTIVE DISPLAY BOX.

No. PF 50 as illustrated, 2 doz.
in a box ... 7/6 per box.

Assorted Six Puffs each 2", 2½", 2¾",
and 3¼" to the box.

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**ALWAYS
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KEEN
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AT A
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PRICE**

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"LIKE GREASED LIGHTNING!"

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ANTI-ACID TABLETS, "TOXINICON" for Rheumatic diseases
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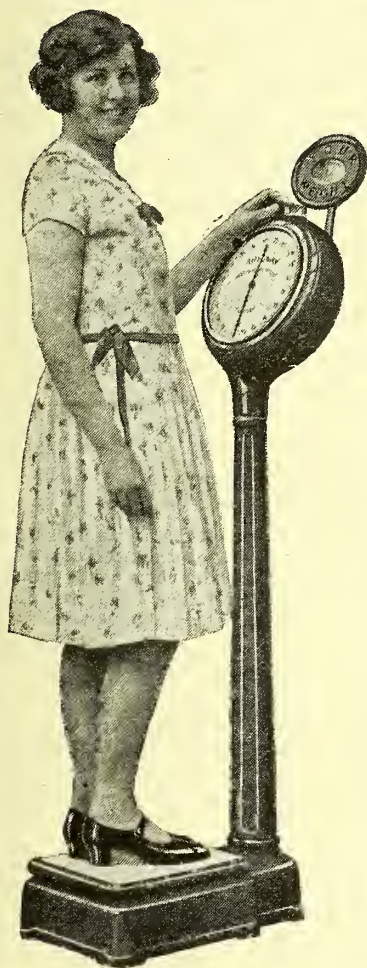
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AUTOWAY TAKES £35:3:10 IN FOUR MONTHS

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CHEMIST AND DRUGGIST

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Telephone No. 168

20 Argyle Street,

Aug. 11th.

Rothsay, 1929.

Messrs. Autoway Coy.
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This indeed is very satisfactory. Your representative said that he believed the machine would pay for itself within two years, but we thought at the time he was a bit optimistic. Fortunately, our estimates were both considerably off the mark.

The Autoway has certainly proved itself to be my best investment, and I think it only fair that you should know I am more than satisfied.

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The original combined Cream and Powder

la **VELOUTY**

de **DIXOR** Paris



The advertised line that you are asked for.

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES:—Full size pot -	21/- doz.	RETAIL 2/9
Super tube -	22/- "	" 3/-
Large tube -	14/- "	" 2/-
Medium tube -	7/- "	" 1/-
Handbag tube -	3/- "	" 6d.

Made in four shades:

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Sole British Agents

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A new Nildé sifter box

(HANDBAG SIZE)

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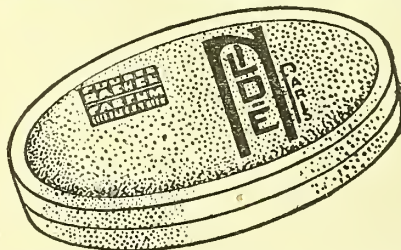
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In 7 shades:—
rachel, naturelle,
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1/-

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Rowland's Macassar Oil is no new preparation; it has been used all over the world for more than 136 years and everywhere it is held in the highest esteem. It is guaranteed to

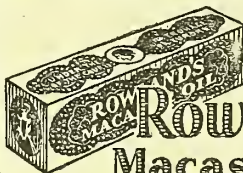
contain no
injurious
substance

P.A.T.A.

3/6, 7/-

& 10/6

Red for
dark hair;
golden for
fair or
grey hair.
From all
Wholesalers



**Rowland's
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AMO SHEFFIELD STEEL BLADES



Write at once
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Telegrams: "LORIMARSCO, BILGATE, LONDON."

MERCOLIZED WAX

— : for the Complexion : —

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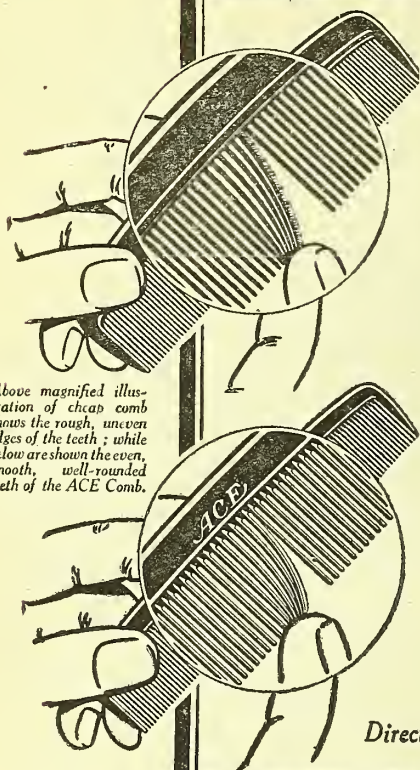
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Examine carefully an ACE COMB

WHEN next you comb your hair examine carefully each tooth of an ACE Comb. Compare it with a cheap comb. You will notice how the teeth of an ACE Comb are evenly cut and smoothly rounded. But the cheap comb, its teeth are sharp and irregularly cut—the public are beginning to realise it too. That is why the popularity of ACE Combs is rapidly increasing. An ACE Comb gives new life to the hair. Tell your customers these facts—and you'll do a profitable business in ACE Combs. Seven dozen ACE Combs in ingenious showcase, 45/6, less 5% discount. Order your case to-day.

—There is a difference

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Direct from : AMERICAN HARD RUBBER CO. (Britain) LTD.
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Order through your usual
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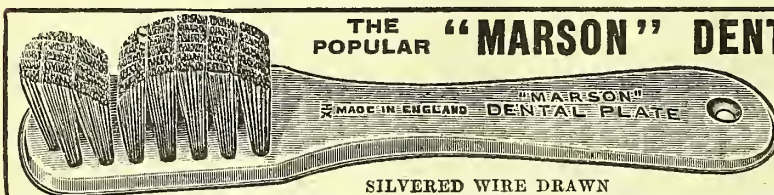
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FOR GREY HAIR —

NUCTONE ECLAIRE, ECLAIRE CONCENTRE
NUCTONE AND NUCTONE CONCENTRE

Manufactured by

STEWART, GOODALL
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THE POPULAR "MARSON" DENTAL PLATE BRUSH

IN STIFF UNBLEACHED BRISTLE
Best English Make. Packed in Cartons.
SAMPLES AND PRICES ON APPLICATION
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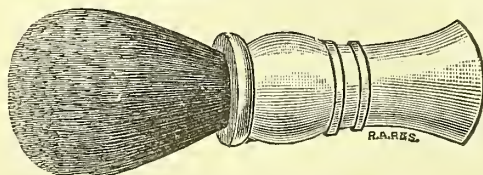
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They are essentially quality products.

Always good value.

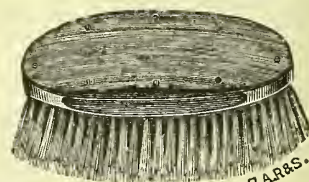


R.A.R.S.



R.A.R.S.

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R. A. ROONEY & SONS (Established over 100 yrs), Higham Hill Rd., Walthamstow, London, E.17, England.

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"Monoksnaps" represent the last word in enlargements. Clean, snappy pictures showing every relevant detail on the original negative. Super glossy finish.

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We specialise in "MONOKSNAPS."

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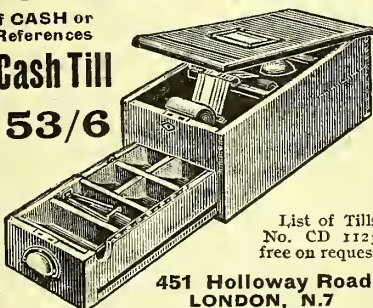
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In packets at 5d.,
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The sure destructive agent which may be
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The size of the screen is 22½ x 28½";
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SULPHATE OF COPPER, FORMALIN, LIQUID SEED DRESSING

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ESTABLISHED 1842.



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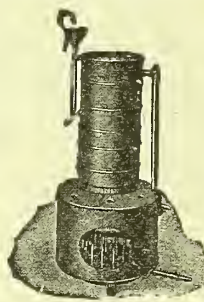
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BEST IN QUALITY & APPEARANCE



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DISTILLED WATER



Brown's Stills are perfectly automatic. Can be run night and day without attention. Patented in U.K. and Continental Countries.

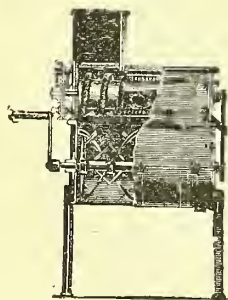
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Gardner's "Rapid" Sifter and Mixer gives a perfect blend. The special Internal Agitator ensures accurate sifting and mixing of materials, irrespective of the diversity of their proportions; if necessary, $\frac{1}{2}$ oz. can be perfectly blended with hundredweights.

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SIFTER & MIXER

Write us for list of
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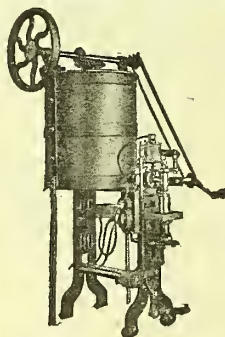
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The record makers in speed filling with cleanliness. Foot-Operated Machines. From £5 5s. Hand-Operated Machines. From 36/-. Soundly constructed, simple in action, easy to clean.

**NEW PATENT SHALLOW TIN
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"ROYAL"

**Automatic CAN FILLING
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MACHINES, CORKING
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**NEW PATENT ACCESSOR-
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BOTTLE FILLING
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6d. size	3/9 per dozen for quantities of 2 dozen and over. Less than 2 dozen, 4/- per dozen.
1/3 size	9/4½ per dozen for quantities of 1 dozen and over. Less than 1 dozen, 10/- per dozen.
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The lower prices will also apply to any quantities when included in £2 parcels.

Quantities of two dozen 6d. packets, or one dozen 1/3 packets supplied on attractive cards, if desired.

The rate of profit to Chemists who take advantage of special quantity terms is thus 37½% (60% on cost), while on £2 parcels, in which Tonic and Condition Powders are included additional discounts of 2½% and 5% are allowed. Get your new stocks NOW!

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C.F.H. 51

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CATALINE

Pays
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BECAUSE it enjoys the largest sale of any Cattle Medicine Preparation and is on the P.A.T.A.

BECAUSE it is consistently advertised and all advertisements refer to the Chemist as the source of supply.

BECAUSE it is well packed, does what it is advertised to do, and shows the trade a satisfactory profit.

BECAUSE we do not employ travellers calling on Farmers, attending sales, &c.

One size, retailed at face value, viz.: 3/9 per bott.

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1 doz, 36/- 3 doz, at 35/6. 6 doz, at 35/- 12 doz, at 34/6 per doz.

CARR. PAID. CASES FREE.

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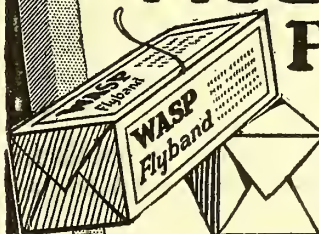
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On orders of one half gross Small size or equivalent, 5% discount and an additional 2½% for Cash.

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Write for a supply to:—

BENGER'S FOOD, LTD., Otter Works, MANCHESTER.

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SPECIAL SEASON OFFER

3 doz. Cucumel at 12/-	...	Sells for	54	0
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12 Miniature bottles FREE	...	" "	2	0
			65	0
		Cost	36	0
			29	0

Outlay 36/- Profit 29/-

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Contents	
No. 8	Series 2585
Vol. 111	
	PAGE
Assay of Hyoscya- mus	230
Bankruptcy Reports	227
Births	232
Business Changes ..	230
C. & D. Commercial Compendium	245
Chemists' Windows ..	230
Correspondence :—	
Letters	243
Subscribers' Sym- posium	243
Legal Queries	244
Miscellaneous In- quiries	244
Dangerous Drugs	
Act	224
Deaths	232
Editorial Articles :—	
Merchandise Marks	
Acts Prosecutions	234
Mercury Market	
Uncertainty	235
Dangerous Drugs	
Again	236
English News	223
Fairchild Scholarship	225
Gazette	223
Information Depart- ment	232
Insurance Act Dis- pensing	238
Irish News	224
Legal Reports	226
Marriages	232
National Insurance Formulary	223
New Companies and Company News ..	227
Observations and Reflections	233
Olive Oil	229
Personalities	232
Radium Mines of Jachymov	226
Radium Research ..	226
Rating Relief	237
Retrospect	244
St. Vincent Arrow- root	236
Scottish News	224
Sporting Events ..	224
Trade Marks	231
Trade Notes	231
Trade Report	239
Wills	232

Gazette

Partnership Dissolved

HULTON, VIOLET, and BETHELL, EVELYN, L.M., 52 George Street, London, and London Road, Sunningdale, Berkshire, manufacturers and sellers of toilet and beauty preparations, under the style of "Miss V. Boundford."

Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

WHIPMAN, P., lately carrying on business at St. Dunstan's House, 8 Cross Lane, London, E.C.1, and residing at 20 Ceylon Road, Westcliff-on-Sea, drug merchant.

RECEIVING ORDER AND ADJUDICATION

BARRER, J. E., Fernilee, Greenleach Lane, Worsley, and Primrose Hill Works, Pendleton, Lancashire, oil, soap and disinfectant manufacturer, under the style of "Barbers."

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Safeguarding of Industries Act

The Treasury have made an Order under Section 10 (5) of the Finance Act, 1926, exempting mercury vapour rectifiers; neodymium oxide; praseodymium oxide; and yttrium oxide from Key Industry Duty from August 20, 1929, to December 31, 1930.

Vaccination Order, 1929

The Vaccination Order, 1929, made by the Minister of Health on August 15 (S.R. & O., 1929, No. 640 : Stationery Office, 1d.), lays down instructions for public vaccinators. Clauses 3 and 4 of the First Schedule are of general interest; the text is as follows :-

All public vaccinations are to be performed with glycerinated calf lymph, or with such other lymph as may be issued by the Minister of Health. If the parent or other person having the custody of the child requires that it shall be vaccinated with lymph issued by the Minister of Health, the vaccination must be performed with such lymph.

The public vaccinator must keep such record of the lymph he uses for vaccination as will enable him always to identify the origin of the lymph used in each operation. He must not employ lymph supplied by any person who does not keep an exact record of its source.

City of London Health Report

The latest annual report of the medical officer of health for the City of London, covering the year 1928, is a ninety-two page folio pamphlet. As usual, the activities of Dr. Willoughby's department have been fully maintained. The examination of meat and fish, for instance, has furnished sufficient details to occupy nearly twelve pages of the report. An interesting feature is the medical officer's reference to the smoke problem :-

No really satisfactory reduction of this smoke nuisance is likely to be effected until the domestic source is attacked, and this does not seem to be within practical reach until some smokeless fuel is produced which can be used in the open ventilated grate, and which will burn with that "fire-light" effect so precious to the average English housewife. That these fuels are available I am aware, as I attended a demonstration of two of them. In each instance the results were extremely satisfactory, and suggest that the time may not be far distant when we may enjoy the open grate conscious that we are no longer contributing to the atmospheric impurities which are undoubtedly responsible in a wide measure for pulmonary affections. Some considerable period of time will, however, doubtless elapse before general education on this subject overcomes the conservative habits of the domestic sphere.

There are few subjects of direct interest to the drug trade, but the report mentions that six samples of drugs out of a total of 128 examined did not comply with the standards of the British Pharmacopoeia, and in two cases vendors were fined. In the occasional distribution of disinfectant fluid—the mention of which is accompanied by the remark, "It is not the practice of my department to distribute disinfectants to the City residents in the way suggested by the circular letter from the Ministry [of Health]"—the precautions suggested by the Ministry have always been adopted.

Sheffield

J. Preston, Ltd., manufacturing chemists, have built new showrooms in West Street to replace their old premises taken over by the city for the site of a hall.

Mr. M. D. Ellisson, chemist and druggist, has purchased the business of Mr. H. Sagar, chemist and druggist, at 354 Langsete Road. Mr. Sagar has joined the staff of the Brightside and Carbrook Co-operative Society, Ltd.

Miscellaneous

FIRE.—The Fleetwood Works of Imperial Chemical Industries, Ltd., suffered considerable damage on August 15, due to an outbreak of fire. A large quantity of oil, the laboratory and the staff records were destroyed.

NATIONAL HEALTH INSURANCE (INSURANCE COMMITTEES) REGULATIONS, 1929.—The provisional Regulations made by the Minister of Health under the National Health Insurance Act, 1924, on August 1, came into operation on that date. The Regulations contain provisions relating to elections and terms of office of members.

UNAUTHORISED POSSESSION OF MORPHINE.—At Bow Street Police Court, London, on August 21, Nina Torres (48), Doughty Street, W.C.1, was bound over for twelve months on a charge of being in unauthorised possession of morphine sulphate. It was stated that the accused had obtained prescriptions for morphine sulphate in different names from four doctors without disclosing to any of them the fact that she was already under treatment.

Irish News

Belfast

At Belfast Police Court, on August 15, Hugh Kennedy, traveller, North Ann Street, was remanded on a charge of embezzling sums of money amounting to £204 5s., belonging to his employers, James Hogg & Co., Ltd., chemists, 173B York Street. Mr. M. Harper appeared for the prosecution, and Mr. McGrath defended. Bail was allowed.

At the recent annual conference of the British Order of Free Gardeners in Belfast the Grand Master, in his presidential address, said that, speaking for Northern Ireland, he was pleased to say that their Government was pledged to inaugurate a scheme of medical benefit in the near future. He hoped that with such in force the medical profession, in their own interests, would exercise care in certification.

Scottish News

Veterinary Congress at Ayr

The annual Congress of the National Veterinary Medical Association this year will be held at Ayr from August 31 to September 6. The programme includes papers on "Foot-and-mouth Disease," "Lameness," "The Mineral Requirements of Farm Animals," "John's Disease," "The Clinical and Epidemiological Aspect of the so-called Hysteria of the Dog." A popular lecture on "Tuberculin Testing," to which the public are cordially invited, will be given in the Palais de Danse, Ayr, on September 3, at 1.45 p.m., by Prof. J. B. Buxton. The president of the year is Dr. O. Charnock Bradley, M.D., D.Sc., M.R.C.V.S., Principal of the Royal (Dick) Veterinary College, Edinburgh.

Brevities

Not for many years have Scottish coast and country chemists been kept so busy with photography as during this month.

The 1929 issue of the Scottish Wholesale Druggists' Patent Medicines and Proprietary Articles Catalogue has just been published.

Mr. John Drummond, chemist and druggist, has acquired the business carried on by Mr. Peter McMaster, 62 Church Street, Dumbarton.

At a recently-held meeting of Kirkintilloch Town Council, Mr. Joseph Anderson Kemp, Ph.C., was appointed a magistrate. For a number of years Bailie Kemp has been prominent in public affairs.

Occasionally one has the pleasure during the holiday season of getting a prescription previously dispensed and with the price marked, as recommended by the C. & D., but the move seems far from general, at least in Scotland.

The Drug Accounts Committee Election (Scotland) has resulted in Mr. J. B. McVittie, Glasgow, being elected to represent the burgh Pharmaceutical Committees, and Mr. John Rutherford Hill, Edinburgh, being elected to represent the county Pharmaceutical Committees. Mr. Thomas Harley, Perth, and Bailie Angus MacDonald, Dunfermline, have also been elected to represent insured persons in electoral divisions 2 and 3 respectively.

Dangerous Drugs Act, 1920

(From "The London Gazette," August 20, 1929.)

At the Court at Buckingham Palace, the 15th day of August, 1929.

PRESENT,

The KING's Most Excellent Majesty in Council.

WHEREAS by Section 8 (2) of the Dangerous Drugs Act, 1920, power is conferred on His Majesty by Order in Council to declare that Part III of that Act shall apply to any drug of whatever kind in the same manner as it applies to the drugs mentioned in Section 8 (1) of the Act if it appears to Him that the drug is or is likely to be productive, if improperly used, of ill effects substantially of the same character or nature as or analogous to those produced by morphine or cocaine:

And whereas it appears to His Majesty that esters of morphine and their respective salts and any preparations containing any of the said esters are productive, if improperly used, of ill effects substantially of the same character or nature as or analogous to those produced by morphine or cocaine:

Now, therefore, His Majesty, in pursuance of the powers conferred upon Him by Section 8 (2) of the Dangerous Drugs Act, 1920, is pleased, by and with the advice of His Privy Council, to declare and it is hereby declared that Part III of the Dangerous Drugs Act, 1920, shall henceforth apply to esters of morphine and their respective salts and to any preparation, admixture and extract containing any of the said esters.

COLIN SMITH.

Sporting Events

THE Leeds Chemists' Golf Club were entertained by the York Chemists at the Fulford Course on August 7. A. Humphreys (Bleasdale & Co.) made a very generous and cheery host, and beat Mr. W. P. Bowman (Goodall, Backhouse & Co.) after a very keen game. The scores for the singles were:—

LEEDS			YORK		
W. P. Bowman	...	0	A. Humphreys	...	1
H. Bowman	...	0	G. A. Coverdale	...	1
J. R. Bentley	...	0	H. B. Marston	...	1
E. Crawford	...	1	O. Colbert	...	0
N. H. Burers	...	1	J. H. Lupton	...	0
J. Judge	...	0	W. Astle	...	1
F. Kemp	...	0	F. C. Atkinson	...	1
J. Higgins	...	0	A. Jones	...	1
H. Marsden	...	1	B. Brooke	...	0
E. C. Foster	...	0	K. Richardson	...	1
A. Houghton	...	1	N. Coverdale	...	0
T. Shooter	...	0	J. Q. Parker	...	1
4			8		

Scores in the foursomes were:—

LEEDS		YORK	
Messrs. W. P. Bowman and H. Bowman	1	Messrs. Humphreys and Coverdale	0
Shooter and Higgins	1	Parker and Jones	0
Burns and Kemp	0	Atkinson and Lupton	1
Bentley and Crawford	0	Marston and Colbert	1
Judge and Marsden	0	Astle and Brooke	1
Houghton and Foster	1	N. Coverdale and Richardson	0

PLAYING on their own ground at Highgate, London, N., on August 3, The British Drug Houses Cricket Club dismissed their opponents, Toogoods Athletic Club, for 9 runs. For the B.D.H.C.C., Collings took 6 wickets for 6 runs, and Fuller took 3 wickets for 3 runs. The scores were:—B.D.H.C.C.—33; Toogoods A.C.—9. The B.D.H. Camera Club had a successful outing on August 10, when Kenwood House and Hampstead Heath were visited, many excellent "snaps" being obtained. The B.D.H. Rambling Club, on the same afternoon, had a very enjoyable ramble. The B.D.H. Cricket Club, on the same day, met Willows Athletic Club (Willows Francis, Butler & Thompson) on the ground of the first-named. The B.D.H.C.C. scored an easy victory by an innings and 24 runs. For the victors Kilgallin took 5 wickets for 3 runs, and Collings took 5 wickets for 4 runs in the first innings. The scores were:—B.D.H.C.C., 86; Willows A.C., 7 and 55.

Fairchild Scholarship and Prizes

THE 1929 examination of the Fairchild scholarship and prizes was held on June 20 at the following centres:—Belfast (supervisor, Mr. James Guiler); Cardiff (supervisor, Mr. Albert Hagon); Dublin (supervisor, Mr. T. Smith); Edinburgh (supervisor, Mr. Peter Boa); London (supervisor, Miss Maddock); Manchester (supervisor, Mr. T. Miller).

The candidates who complied with all the conditions and entered for this year's examination numbered fifty-four. Four were absent from the examination. Of the fifty-four who entered thirty-five represented England; one represented Irish Free State; one represented Northern Ireland; seven Scotland; and ten Wales.

The papers written by the candidates were assessed by: Mr. Peter Boa, Ph.C. (practical pharmacy and prescription reading); Mr. James Grier, M.Sc. (chemistry and physics); Mr. William Kirkby, M.Sc. (botany and business knowledge and sale of poisons).

The questions were set by:—Mr. Peter Boa, Ph.C. (practical pharmacy and prescription reading); Mr. James Grier, M.Sc. (chemistry and physics); Mr. William Kirkby, M.Sc. (botany and business knowledge and sale of poisons).

The following are the results:—

Mr. Leslie A. W. Doe, South Norwood, London, wins the scholarship, value £60, with 368 marks out of a possible 500.

Mr. Nathan Hyman, Leeds, wins the England prize, £5.

Mr. William H. Mulholland, Belfast, wins the Ireland prize, £5.

Mr. Russell D. Stewart, Dundee, wins the Scotland prize, £5.

Mr. Trefor A. Martin, Barry Dock, Glamorgan, wins the Wales prize, £5.

PARTICULARS OF SCHOLARSHIP AND PRIZE-WINNERS

Mr. Leslie A. W. Doe was registered at Croydon and apprenticed to Mr. Scott Wishart, Lower Addiscombe Road, Croydon, by whom he is still employed.

Mr. Nathan Hyman was registered at Leeds and apprenticed to Mr. L. Livingstone, Camp Road, Leeds; he is at present employed by Mr. C. Smith, Mostyn Street, Llandudno.

Mr. William H. Mulholland was registered at Belfast and apprenticed to Mr. Andrew Wilson, Belfast; he was afterwards employed by Mr. Alexander Dundie, Belfast, and is at present with Mr. Robert McMullan, Lisburn Road, Belfast.

Mr. Russell D. Stewart was registered at Dundee and apprenticed to Mr. Charles Duncan, 56 Nethergate, Dundee, by whom he is still employed.

Mr. Trefor A. Martin was registered at Barry and apprenticed to Rees & Warren, Cardiff. He is now employed by S. Hicks & Co., Cardiff.

The following is the text of the papers:—

CHEMISTRY AND PHYSICS (Time allowed—two hours)

Illustrate all answers with diagrams and equations, where possible.

(1) What are Newton's laws of motion? Write out the principal formulæ for uniformly accelerated motion. Define and explain fully, with examples, the following terms: (a) average velocity, (b) impulse, (c) momentum, (d) poundal, (e) inertia, (f) couple.

(2) State the laws of reflexion of light. Indicate how you would proceed to prove them by simple experiment. Distinguish between a virtual and a real image and explain how a convex lens can produce a virtual image. An object

is placed at a distance of 5 cm. in front of a convex lens and a virtual image is produced at a distance of 25 cm. from the lens. What is the focal length of the lens?

(3) How would you distinguish between acid oxides, basic oxides and peroxides, illustrating your answer by discussing the properties of the following oxides: PbO , PbO_2 , Pb_2O_3 , Cr_2O_3 , CrO_3 , Al_2O_3 , NO , SiO_2 .

(4) On what facts was Avogadro's hypothesis founded? Explain concisely its importance in chemical theory and indicate how it fits in with the general properties of gases. Describe an experiment whereby the molecular weight of a volatile liquid such as carbon disulphide can be determined, 120 c.c.s. of the vapour of water weigh 0.056 gram at 180°C . and 740 mm. pressure. By means of these data show that the molecular weight of water is approximately 18. 1 c.c. of hydrogen at N.T.P. weighs 0.00009 gm.

(5) How is sulphuric acid prepared on the manufacturing scale? Describe the usual action of strong sulphuric acid (under suitable conditions) on (a) mercury, (b) iron, (c) calcium fluoride, (d) manganese dioxide, (e) potassium bichromate, (f) a mixture of silica with calcium fluoride.

BOTANY

(Time allowed—one hour)

(1) What are the cellular and vascular elements found in the stem and leaf of some plant with which you are familiar (such as the sunflower or buttercup)? Show by means of sketches how they are arranged.

(2) Give a brief description of chlorophyll and starch, as well as an account of the part they play in the life of a plant.

(3) What is the meaning of the following terms:—deciduous, cinate, pinnatifid, sessile, exstipulate, stoloniferous, cymose, dichotomous? Use diagrams to make your explanations clear.

PRACTICAL PHARMACY AND PRESCRIPTION-READING

(Time allowed—one hour and a half)

(1) State the principal constituents of the following preparations:—

- (a) Compound mixture of iron,
- (b) Compound tincture of cinchona,
- (c) Compound infusion of gentian,

and supply an outline of the respective processes for their production.

(2) What are the official synonyms for:—Compound tincture of benzoin, compound tincture of camphor, tincture of krameria, chaulmoogra ointment, acetanilide, red mercuric oxide?

(3) Write the full pharmacopœial (Latin) name for:—Antimonial powder, seidlitz powder, senna pods, lanolin, adhesive plaster, liquid extract of cotton root bark, plummer's pill.

(4) State the proportion of active ingredient in the following:—Antimonial powder, compound powder of kino, aromatic powder of chalk with opium, compound powder of opium, compound powder of rhubarb. Describe a method of preparation appropriate to each.

(5) Translate the following prescriptions into English and render the directions in appropriate language:—

- (a) Pulv. rhei, gr. j.
Sodii bicarb., gr. viij.
Bismuth. subnit., gr. x.
Pulv. aromat., gr. ij.
Misce et fiat pulvis j. et mitte tales duodecim.
Sig.: Sumat unam ex paullo aque semi horâ ante cibos.
- (b) Potass. chlorat., 3 j.
Acid. hydrochlor., m. xx.
Syrupi, 5 j.
Aq. ad 5vj.

Fiat gargarisma chlorinata.

Sig.: More dicto utenda quarta quaque horâ.

State how this should be compounded.

BUSINESS KNOWLEDGE AND SALE OF POISONS

(Time allowed—one hour)

(1) Enumerate all the insurances to be carried out in a chemist's business in which the proprietor, an assistant, a porter and an errand boy are employed.

(2) State what are the functions performed by the invoice book, the cash book, and the ledger. Show how the two latter are related to the sales book.

(3) Under what conditions can the following articles be sold:—Sulphonal, oxalic acid, ammonia, carbolic acid and its liquid preparations?

(4) Give particulars of the regulations for the storage of poisons.



Mr. L. A. W. Doe

Radium Research

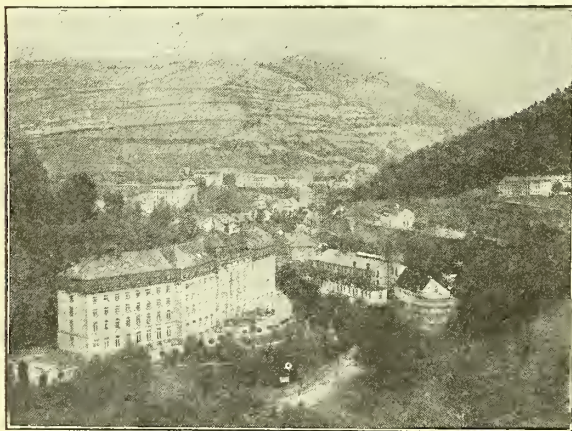
THE National Radium Trust is constituted as follows:—Lord Parmoor, Lord President of the Council (chairman); Mr. Arthur Greenwood, Minister of Health; Mr. W. Adamson, Secretary of State for Scotland; Sir Ernest Rutherford, President of the Royal Society; Sir John Rose Bradford, President of the Royal College of Physicians; Lord Moynihan of Leeds, President of the Royal College of Surgeons; Lord Dawson of Penn, President of the Royal Society of Medicine; Lord Mackenzie, chairman of the Central Liaison Committee for Voluntary Hospitals in Scotland; Professor A. H. Burgess, M.B., F.R.C.S., President of the British Medical Association; Viscount Lee of Fareham.

The Radium Commission is composed as follows:—Viscount Lee of Fareham (chairman), appointed by the National Radium Trust; Lieutenant-Colonel Smallman, M.D., appointed by the Minister of Health; Mr. H. L. F. Fraser, LL.B., appointed by the Secretary of State for Scotland; Professor Sidney Russ, D.Sc., appointed by the Medical Research Council; Mr. G. W. C. Kaye, D.Sc., appointed by the Department of Scientific and Industrial Research; and the following members appointed by the Trust from the panel of twelve persons selected by the heads of the medical profession:—Dr. J. M. W. Morison, Edinburgh University; Professor G. E. Gask, F.R.C.S., London University; Mr. W. Ernest Miles, F.R.C.S., Brompton Cancer Hospital; Dr. Comyns Berkeley, Middlesex Hospital; Dr. Carlton Oldfield, Leeds University; Professor A. J. Hall, M.D., Sheffield University.

Radium Mines of Jachymov

By J. G. F. Druce, M.Sc. (Lond.), R.Nat. Dr. (Prague), F.I.C.

THE demand for radium has revived the mining industry of Jachymov, which has had a varied career. Early mining operations began in the fifteenth century, when silver was the metal sought. It was developed by Count Joachim Schlik, who invited miners from Bohemia and Saxony to exploit the mines as fully as



JACHYMOV (ST. JOACHIMSTAL)

possible. His Christian name became associated with this valley in the ore mountains, and the town known as Joachimsthal. The silver was minted into coins which were noted for their genuine value, and were first called Joachimsthalers; this was soon abbreviated to Thalers. Gradually the silver became exhausted, and mining dwindled, except for the production of small amounts of cobalt ores used in making pigments. In the middle of the last century the uranium ores found application in imparting yellow shades to porcelain glaze, and so the pitchblende was mined as far as the small demand required. After 1912 much ore was worked up for radium, but the advent of the war delayed systematic operations till the year 1920.

Legal Reports

Irregular Sale of Poison.—At Kirkwall Sheriff Court, on August 17, Mr. Matthew White, veterinary surgeon, was charged at the instance of the Pharmaceutical Society, that, not being a registered pharmaceutical chemist or chemist and druggist, he sold carbolic acid and contravened the regulations by selling poison in a bottle not distinguishable by touch and not distinctly labelled "Poison." Mr. F. Buchanan, solicitor, submitted a preliminary objection in respect of the first two charges on the ground that his client was a duly registered veterinary surgeon. He also contended that the bottle was distinguishable by touch, as it had a lip. Mr. J. C. Morrice, who prosecuted, said there was an Amending Act in 1869 which provided that a veterinary surgeon was only entitled to dispense poisons in the treatment of animals under his care. The sheriff upheld the objections, and a plea of "guilty" was thereupon tendered. The sheriff dismissed the accused with an admonition.

Registration Dispute.—At Malvern, on August 14, T. Norman Fuller, Westhill, Alfriston, was summoned on a charge of obtaining the sum of £2 6s. by false pretences. Mr. Godfrey Russell prosecuted on behalf of the Pharmaceutical Society. Mr. Arthur E. Baylis, chemist and druggist, deposed that in June he was in need of a manager for his branch business at Barnards Green, and inserted an advertisement in *THE CHEMIST AND DRUGGIST*. On June 15 he received a letter from the defendant stating: "I am a fully qualified chemist with all-round experience." He saw Mr. Fuller and offered him that situation subject to his references being satisfactory—a month on trial. He gave him £2 6s. expenses, and the defendant accepted the engagement, to commence on June 26. Witness telephoned to Mr. Horrell, a chemist at Broadstairs, and discovered that the defendant had not been in employ there, and that they could not trace the name. Witness wrote to the registrar of the Pharmaceutical Society, and in reply was told that as far as they could tell the defendant had never been registered. Mr. A. J. Plowright, Ph.C., 17 Bloomsbury Square, London, W.C., produced a register, and said that the defendant had never been on that register and had passed no examinations. He could say definitely that the defendant was not a qualified chemist. Replying to a question by the defendant, witness said it would not be possible for a name to be inadvertently omitted from the register. The defendant elected to give evidence on oath. He suggested it was a malicious and vindictive prosecution. Mr. Baylis asked him the amount of his fare and gave it to him. When he arrived back home, he and his wife agreed that the accommodation was not suitable, and he wrote to Mr. Baylis to that effect. He received a card from Mr. Baylis asking for the date of his qualification, which he was not bound to give, as he had declined the situation. He could not give the exact date of his registration, but he believed it was April 1916. He had a spell in the Army for two years. He then joined the staff at St. Bartholomew's Hospital, the chief pharmacist having seen his certificate and satisfied himself as to his credentials. In support of that evidence, defendant handed in a copy of the "Hospital Gazette." The Chairman: What has happened to your certificate?—Well, I cannot produce it at present, but I hope to convince you I have one. The defendant added that he was not aware his name was not on the register. The Chairman: When did you last see your name on the register?—As far as I remember, in April 1917. Answering Mr. Russell, the defendant said he did not agree he was not a qualified chemist. His name might not be on the register. He had not had his certificate since 1919. The chairman told the defendant that if he thought he could obtain the certificate they would adjourn the case. The defendant made no answer, and the Bench committed him for trial.

We have received from Mr. Robert Barker, chemist and druggist, Buckley, Chester, a copy of a new "song fox-trot," of which he is the librettist, entitled "If Walter doesn't Falter at the Altar," with music by Mr. Vincent Ross. The dance is published by Peter Derek, Ltd., 85, New Oxford Street, London, W.C.1.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

ROGER PINARD, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturers, importers and exporters of and dealers in perfumery and toilet preparations, etc. The directors are: W. F. Doak, M. A. Robinson.

MARKET PHARMACY, LTD. (P.C.).—Capital £2,500. Objects: To adopt an agreement with R. S. Moles, and to carry on the business of chemists, druggists, opticians, drysalters, etc. The directors are: R. S. Moles, M. Moles, and Rose Dobkin. R.O.: 36 The Market, Palmers Green, N.13.

PROBAC FOOD CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in food products of every description, including those containing a special preparation of vitamins suitable for medicinal purposes. The directors are: I. H. A. Kriens, R. A. Byford, R. J. G. Rolfe. R.O.: 10 Santos Road, Wandsworth, S.W.

ROTARY PHOTOGRAPHIC CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of photographic printers, publishers, chemicals for photographic and other purposes, manufacturers of and dealers in photographic plates, etc. The directors are C. F. S. Rothwell and C. Kershaw. R.O.: 3 Soho Square, W.1.

PRUNOL PRODUCTS, LTD. (P.C.).—Capital £10,000. Objects: To acquire the whole of the undertaking of Prunol, Ltd., including the recipe, prescription and full information as to the processes of manufacturing, and the right to manufacture and deal in a certain medicinal preparation known as "Prunol," and to carry on the business of manufacturers and sellers of medicinal preparations, etc. The first directors are: A. B. Dobell, L. H. Gruning, J. J. Middleton. R.O.: 28 Buckingham Gate, S.W.1.

COLLOIDAL PATENTS, LTD.—At a meeting held on August 9 it was resolved that this company be wound up voluntarily. Mr. H. C. Hankins, 62 London Wall, London, E.C., was appointed liquidator, and a meeting of creditors will be held at the above address on August 29.

GLADYS COOPER'S BEAUTY PREPARATIONS, LTD.—Mr. James Fabian, chartered accountant, 7-8 Staple Inn, W.C.1, was appointed receiver and manager on August 6. He informs us that the business is being carried on as heretofore, and that his appointment does not necessarily mean that the trade creditors are likely to suffer any loss.

Private Arrangements

William Roberts, 2A Chapel Street, Llandudno, chemist and druggist.—A meeting of the creditors was held on August 9 at Chester, when, a statement of affairs was submitted, which showed liabilities of £1,366 8s. 11d., of which £570 2s. 4d. was due to unsecured creditors and £796 6s. 7d. to partly secured creditors. The total claim of the latter was £826 6s. 7d., but securities of the estimated value of £30 were held. The assets consisted of book debts £60 12s. 7d., valued at £50; stock, £210; and fixtures, fittings, etc., £175; making a total of £435, from which preferential claims of £112 13s. 1d. had to be deducted, leaving net assets of £322 6s. 11d., or a deficiency of £1,044 2s. It was reported that after the war the debtor was in employment, and later commenced his present business as he had previously become a qualified chemist. Books of account had been kept, and audited accounts regularly prepared. The commencing capital was £329, and during the first year a further £200 was introduced. For the nine months ending December 1926 there was a loss of £151, and the drawings were £355. In the next year further capital was brought in to the extent of £53, and a profit of £92 was earned, but the drawings amounted to £511. For the twelve months ended December last, capital of £122

was introduced, there was a profit of £120 and the drawings were £435. After discussing the position, the creditors resolved that the matter should be dealt with under a deed of assignment, with Mr. Parkin S. Booth, accountant, of the Association of Manufacturing Chemists, as trustee. The following are creditors:—Evans Sons Lescher & Webb, Ltd., £75; Ayrton, Saunders & Co., Ltd., £57; Imperial Dry Plate Co., Ltd., £27; Maw, S., Son & Sons, Ltd., £21; Agfa, Ltd., £18; Warrick Bros., Ltd., £17; Wigglesworth, Ltd., £12.

Bankruptcy Reports

Re Francis William Bidie (described in the petition as Francis Wilson Bidie, 10 Lemon Street, Truro, and Central Central Square, Newquay, chemist and druggist.—The adjourned public examination was held recently at the Town Hall, Truro. The statement of affairs filed showed a deficiency of £569, but at the previous hearing it was reported that the trustee stated that the deficiency would be about £800. The debtor had stated previously that he had no recollection of having received a form in connection with his former bankruptcy at Burton-on-Trent. The deputy official receiver produced a form to which the debtor's signature was appended, pointing out that the signature was an acknowledgment of the receipt of a form stating what were the duties of an undischarged bankrupt in respect of property acquired by him, and of obtaining credit without informing creditors that he was an undischarged bankrupt. The debtor, in reply to further questions, stated that after he had sold his Truro business he did not preserve his day-book. The examination was closed.

Voluntary Liquidations

W. F. Willis & Co., Ltd., 51 Farringdon Road, London, E.C.1, druggists' sundriesmen, etc.—A meeting of creditors was held recently at the Institute of Chartered Accountants, Moorgate Place, E.C. The chair was occupied by Sir Harold Moore, the liquidator. The statement of affairs showed ranking liabilities of £8,731 16s., of which £2,019 19s. 2d. was due to the trade, and £6,711 16s. 10d. to cash creditors. The assets comprised cash in hand, £3 19s.; book debts estimated to realise £900; fixtures and fittings expected to produce £50; motor-cars valued at £100; and stock estimated to realise £1,250, making a total of £2,303 19s. (net £2,238 7s. 10d.). The issued capital was £500, all of which was fully paid. Sir Harold Moore reported that the assets had been valued on a conservative basis, and he was hoping that the amount shown in the statement of affairs would be realised. The company was registered in 1924 under the style of the Bazaar Supply Association, Ltd. The company did not appear to have done very much business until the end of 1925, when the name was changed to the present style for the purpose of taking over the business, which had previously been carried on by Mr. W. F. Willis. The company carried on that business from January 1, 1926, down to the date of the liquidation, but with little success. None of the cash creditors held any security. The directors had drawn very little from the business—only £6 a week between them, and they had been putting money into the concern all the time. There was a gross profit in each accounting period, but it was insufficient. The drawings of the two directors over the whole period had been £984. A resolution was unanimously passed confirming the voluntary liquidation of the company, with Sir Harold Moore as liquidator. The following are among the creditors:—J. & E. Atkinson, Ltd., £10; Addis Brush Works, £22; Anzora Perfumery Co., Ltd., £20; A. Bourjois et Cie, Ltd., £23; Breidenbach & Co., Ltd., £10; Dubarry et Cie, £35; Erasmic Co., Ltd., £22; Evan Williams Co., Ltd., £28; D. & W. Gibbs, Ltd., £12; J. C. Gambles & Co., Ltd., £12; Icilm Trading Co., Ltd., £15; International Chemical Co., Ltd., £10; North British Rubber Co., Ltd., £34; Ponds Extract Co., £22; Saville Perfumery, Ltd., £22; Stephens Trade Corporation, Ltd., £10; R. S. Smallman, £50; Tokalon, Ltd., £30; Warrick Bros., Ltd., £14; Wright, Layman & Umney, Ltd., £10; Yardley & Co., Ltd., £42.

National Insurance Formulary

By John Humphrey, Ph. C.

It has always appeared to me inevitable that a standard formulary for the whole country should ultimately replace the numerous local formularies in use for National Health Insurance dispensing purposes. Such a development was to be expected, sooner or later, in accordance with the tendency which has led to the absorption of lesser pharmacopœias by the British Pharmacopœia. Moreover, the Ministry of Health is known to have been keen upon this point for some years past, but did not possess the required powers to enforce the general use of one and the same formulary. Material for such a formulary was available, but opportunity for utilising it only presented itself when trouble arose about the payment in full of chemists' accounts, and the British Medical Association was induced to take part in the movement to educate panel practitioners in the art of prescribing on more economic lines. This movement in favour of less expensive prescribing has been somewhat forced, and interference with the practitioner's right to order at his discretion proper and sufficient medicine has been more pronounced at times than was altogether justified. But this does not detract from the advantages that must accrue if a satisfactory formulary can be provided as a prescriber's guide, serving its purpose equally well in any part of the country. The principle of a national formulary for this purpose was approved at a conference of delegates of Pharmaceutical Committees more than a year ago. Later, proofs of a draft formulary were submitted to Panel and Pharmaceutical Committees in England and Wales, and the adoption of what is described as a National Formulary for National Health Insurance Purposes is now imminent in many areas.

REVISION NEEDED

There is much in the completed formulary which did not appear in the draft, including formulas which are marked examples of what can only be described as bad pharmacy. Apart from this, the draft was not properly circulated among panel chemists generally, whilst the book as a whole does not appear to have been submitted to competent critics and advisers before the panel and pharmaceutical committees were formally asked to adopt it. In spite of this, there should be no question about the wisdom of letting this National Insurance Formulary replace all purely local formularies. It is improperly named, it includes much that must fail to commend it to practical pharmacists, and it will probably be found not to meet all the needs of conscientious prescribers. Moreover, it appears to have been compiled with a notable disregard of ethical considerations, as manifested by misapplication of B.P. and B.P.C. names to preparations not included in the British Pharmacopœia or the Codex, and by the inclusion of what are virtually B.P. and B.P.C. preparations with more or less unjustifiable modifications (*C. & D.*, August 10, p. 157). Distinctive names should have been coined for use in every instance of this kind, if only to guard against the reproach that inferior preparations are supplied to insured persons under the names applying to better-class articles when ordered by doctors for their private patients.

In view of the manifest advantages attaching to a general standard for the whole country, it is to be regretted that there should be a disposition in some areas to refrain from adopting the compilation for which responsibility rests primarily with the Insurance Acts Committee of the British Medical Association. At the same time, it is not surprising that reluctance to adopt this National Insurance Formulary should exist in certain quarters. The contents of the book compare most unfavourably with those of some of the local formularies—models of their kind—which it is proposed to replace, and it is to be remembered that local formularies reflect closely prevailing medical practice in their respective districts—much more closely, in fact, than any national formulary is ever likely to do. I am free to admit that this National Insurance Formulary, as it ought properly to be described, reflects no credit upon anyone concerned in its production, and that it is urgently in need of serious revision and possibly amplification. Nevertheless, I would urge that there should be no undue delay in adopting it for general use throughout England and Wales.

Like the first British Pharmacopœia, published in 1864, it may have to be withdrawn speedily because of errors and deficiencies. But let it be adopted quickly, under protest if desired, and then let steps be taken to improve the book so as to make it a really worthy production. Having apparently failed so far to secure the co-operation of pharmacists competent to assist in the compilation of a satisfactory formulary, or to utilise the services of such in an adequate degree, the British Medical Association might do well to consult the Pharmaceutical Society before proceeding to the production of a revised issue of the National Insurance Formulary. Meanwhile, I append a few notes embodying the observations of myself and several friends after a preliminary survey of the book.

SOME DEFECTS

- Collut. pot. c. phenol.—The quantity of solution of potash ordered seems excessive.
- Emuls. petrol. c. agar.—Why such a small quantity of agar-agar in the formula, not equivalent to a single dose in eight ounces?
- Garg. carbol. co.—Here, again, the quantity of solution of potash appears excessive.
- Inject. vaginales.—The use of teaspoons as measures seems open to objection, unless a standard teaspoon be adopted.
- Lin. aconit. co. meth.—After mixing, one-fourth of the liniment separates, owing to insolubility of the olive oil in the lin. chlorof. This is objectionable and dangerous in the case of so powerful a preparation.
- Lin. album.—Here the B.P.C. name is applied to a totally different and most unsatisfactory preparation. It separates in a few minutes after mixing, and gradually becomes curdy, clotted and altogether unsightly. The cottonseed oil is doubtless the cause of the trouble and would be better replaced by sesame oil, with other modification of the formula.
- Lin. methyl salicyl. simp.—This separates into three approximately equal portions, and is entirely unsatisfactory. The wrong oil is used and the formula requires other modification.
- Lot. acid. picric.—Aq. dest. is ordered, but hardly seems to be necessary in this case.
- Lot. calamin. oleos.—The use of liquid paraffin instead of olive oil hardly appears to be justified.
- Lot. eusol.—Is it sufficient to allow this to stand for a minute only before filtering, and if sufficient why mention the time at all?
- Lot. picis carb. et plumb.—Aq. dest. is hardly necessary in this case.
- Mixture.—Awkward quantities of liquid medicaments are ordered in many instances. Thus, 3 minims in a half-ounce dose becomes 36 or 48 minims in a 6oz. or 8oz. mixture, and measure-glasses are not graduated for such quantities. Substituting 2½ minims for 3 minims in a dose, the difficulty in exact measuring vanishes. Exception must also be taken to the ordering of U.S.P. fluid-extracts as ingredients of several mixtures. Surely we need not be thus dependent upon the United States for suitable formulas.
- Mist. sod. sal.—This would be better made with a bitter infusion to cover the sickly-sweet taste of the sodium salicylate.
- Nebulæ.—Why order these to be filtered, particularly when liquid paraffin is used as a basis?
- Neb. menthol c. benzamin. hydrochlor.—The benzamine hydrochloride is insoluble in either oleic acid or liquid paraffin, so that a muddy liquid results and deposits freely.
- Cc. hydrarg. oxid. flav.—Why should white soft paraffin be ordered in this case?
- Pigment. iod.—Why should isopropyl alcohol be employed here when the ordinary tinctures of iodine are used for pigment. iod. fort.?
- Pil. quin. sulph.—Does the quantity ordered refer to quinine sulphate or the B.P. pill-mass? The latter would be preferable.
- Ung. calamin.—An absorbent base would probably be better here, as in the case of zinc ointments generally. On adding the water, the calamine tends to become cement-like and unmanageable.
- Vapor. creosot.—Why should liquid paraffin be ordered here? It is unusual and must prevent much of the creosote from being vaporised freely.
- Vapor. menthol.—Here, again, the use of liquid paraffin seems to require explanation.

The largest electric sign in the world is said to be that of the Mosby Medicine Co., Cincinnati, U.S.A., on the Central Pier, Atlantic City, New Jersey.

Olive Oil

By H. Droop Richmond, F.I.C.

In the absence of my colleague, I would like to say a few words in reply to Mr. Parry's comments on the remarks which Mr. Powell and myself made on olive oil in *THE CHEMIST AND DRUGGIST* of August 10.

First of all, I notice there appears to be a fundamental difference between us. This is best illustrated by Mr. Parry's statement: "In paragraph 3 of Messrs. Richmond and Powell's note, the view attributed to me is merely the official statement of the British Pharmacopœia." This, in my opinion, is certainly not the case, because the Pharmacopœia says that "olive oil is the oil expressed from the ripe fruit of *Olea europæa* and refined," while the whole trend of Mr. Parry's remarks is that any oil obtained from olives, no matter what its condition, if sufficiently refined so that the effect cannot be detected by odour or taste, or analysis by chemical means, complies with the official statement of the B.P. I maintain that what the compilers of the B.P. had in mind by their statement was the grade of oil known as "virgin" oil.

Mr. Parry states, and we accept the statement, that the amount of olive oil produced with a very low acid value by mere expression (that is, practically "virgin" oil), is not sufficient to supply the world's requirements, and, therefore, it means that lower grades of oil are being refined, as we should say, to simulate "virgin" oil, or, as we think Mr. Parry would probably say, to be "virgin" oil. Now, just because the ordinary consumer is deceived by having an inferior oil refined up to the apparent standard of "virgin" oil and sold to him as "virgin" oil, so also is he prejudiced.

I remember many years ago inspecting a process which would take any old, rancid butter, refine it and recondition it apparently equal to the best fresh butter. I had no hesitation in advising my clients not to touch the process. Might I ask Mr. Parry if, seeing that the renovated butter had characters which the user could not detect by the odour or taste, nor the analyst by chemical means, he thinks that this and the finest fresh butter are the same article, though one was made this way, and the other was made that way?

It appears to me that Mr. Parry's experience of the use of the ultra-violet ray apparatus in the laboratory cannot be very extensive, or he would never talk of it as an analytical toy, or of the use of it as the "lamp test." He would know that very valuable information of a varied character about a large number of articles is obtained by this form of examination, and it is not what one ordinarily considers to be a "test." The ultra-violet lamp is a scientific piece of apparatus by which one finds evidence which can be obtained in no other way, and which, like other analytical evidence, requires interpretation by the analyst. Its particular use in olive oils lies in the fact that while "virgin" oils give only a white fluorescence, there are olive oils, obtained by various processes, which give a blue fluorescence, and this blue fluorescence is not masked by such drastic methods of treatment as bleaching the oil; and when the various pitfalls of the method are duly allowed for, and the evidence scientifically weighed up, there is distinct evidence that some olive oils are not "virgin" oils, though they are put on the market under descriptions which imply that they are the highest-grade oils.

The vendors of such oils occasionally make admissions that these oils are not all that they seem. For instance, an advance sample of oil was sent with the naïve admission that the colour was not dark enough, but that the bulk would either be darkened to suit the purchaser's taste, or the necessary colour could be sent on, and it was also stated that the colour added would defy the "lamp test" (which, incidentally, is not true).

Mr. Parry states that he does not agree with the view put forward of the keeping quality of the refined oil. Our statement was not a view, it was a fact of observation, and we would mention that we are far from being alone as observers of this fact.

Finally, Mr. Parry says, "It would be interesting to know what view is held by Messrs. Richmond and Powell on the refining process for oils used as human food." Of course, we have views on the subject, but we can

hardly be expected to discuss such a wide subject in an article on olive oil; the trend of my views, however, is broadly that refining processes are legitimate which are not to the prejudice of the purchaser. With regard to the specific questions he puts, I would answer:—(1) I sincerely hope that no public authority is furnished with a "test" from which "official deductions" are to be made; I am convinced, however, that it is only a matter of time for every laboratory doing analytical work to be equipped with an ultra-violet ray apparatus and to use the valuable evidence obtained by this according to experience. (2) The deductions and inferences that Mr. Powell and I suggest are succinctly that inferior products refined to simulate superior products shall not be sold as the superior article, and I would instance the renovated butter that I mentioned above; cacao butter mentioned by Mr. Parry is not to my knowledge a product about which any doubt is likely to be raised. The obvious natural consequence is more commercial honesty.

I note that Mr. Parry presumably agrees that it is not right to compare seed oils with a pulp oil, as he now brings forward oil of lemon as an oil not directed to be refined; but surely there is such a wide difference between an essential oil which may be obtained by various modes of expression and a fatty oil which is expressed from a ripe fruit that the two are scarcely comparable.

By Ernest J. Parry, B.Sc., F.I.C., F.C.S.

I do not propose to carry on a discussion which is bound to be interminable so long as Mr. Droop Richmond makes the statements he does regarding olive oil. I only propose to call attention to two, when, so far as I am concerned, the matter is closed. He says, "I maintain that what the compilers of the B.P. had in mind by their statement was the grade of oil known as virgin." I do not think many other persons in this country would maintain that an olive oil described as refined and having an acid value of 6 is meant to indicate a "virgin" olive oil. However, this is no doubt due to the inexperience which Mr. Richmond imputes to me. Mr. Richmond chides me for speaking of the ultra-violet ray apparatus (it is a lamp test, in spite of Mr. Richmond) as an analytical toy. Now I do not consider this quite fair: what I really said was, "It appears to me that we have an analytical toy (I speak only as far as this oil matter is concerned)." I again reiterate all that I said previously.

Another of the feeble pillars supporting the "lamp test" for fats and oils has crumbled away. A. van Druten ("Zeit. Unters. Lebensm.," 1929, 57, 60) has published a paper dealing with the application of the ultra-violet light to lard testing. He states that contrary to hitherto accepted explanations of luminescence phenomena in lard, it is shown that perfectly sound Dutch lard rendered on the water bath at a temperature of not above 60° may show blue or blue-violet fluorescence. It is, therefore, he states, not permissible to draw definite conclusions from such phenomena as to the nature, origin, and method of manufacture of the product.

By Norman Evers, B.Sc., F.I.C.

SIR,—Surely the value of the ultra-violet "lamp test" for olive oil is that it does distinguish between "virgin" oil obtained solely by expression and a "refined" oil or an admixture of "refined" oil. For those users of olive oil who prefer the rich flavour of the natural oils to the insipid and watery "refined" oil a test which is not dependent on subjective influences has a very great value. Personally, I have not found a non-fluorescent oil which did not from its flavour and other tests appear to be a natural expressed oil, and therefore it does not appear that "doctoring" an oil to pass the test is widely or easily practised at the moment. The question of the use of "refined" oils for edible purposes is largely a matter of taste, but not entirely so. Surely the question of price is a not unimportant factor? My own view is that anyone comparing an unmixed "refined" oil with a "virgin" oil would unhesitatingly vote for the latter, and therefore that any admixture of the former with the latter would mean a deterioration in quality, and should mean a correspondingly lower price; but, like Mr. Parry, I too must resist the temptation of setting myself up as an authority on matters of taste.

Yours faithfully,

NORMAN EVERS.

SIR,—Having been in the olive oil trade for about thirty-five years, I have read with interest the various articles which have appeared in your journal regarding the lamp test for edible olive oils. Although out of curiosity we have recently had several of our shipments of French edible olive oil subjected to the ultra-violet ray test by Mr. C. E. Sage, which they passed, I attach no importance to this, as the test is not required by the British Pharmacopœia, and consequently I am of opinion that no buyer need worry about it when laying down a contract for this article. Of course, he has to obtain a guarantee that the oil will pass all the requirements of the B.P., and beyond this I think he is usually guided almost entirely by his own opinion of the taste, colour and odour of the oil.—Yours truly,

P. FORMOY,

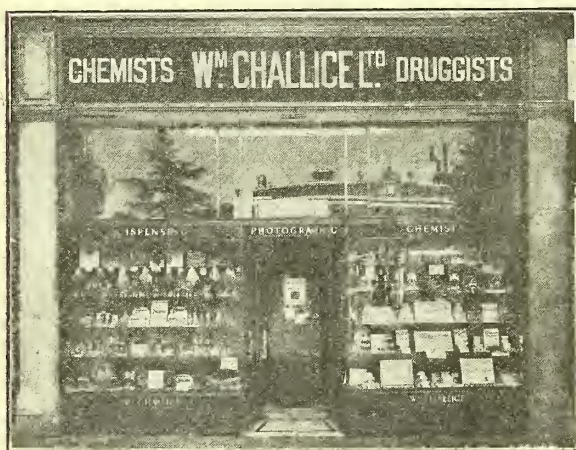
Manager, Olive Oil Department, Foley, Aikman & Co.
London, E.C.3.

Chemists' Windows

Photographs sent to the Editor for reproduction should be accompanied by notes as to the arrangement of the displays.

A New Pharmacy Front

THE illustration shows a new shop-front recently constructed for William Challice, Ltd., chemists, 152 High Street, Bromley. This is an excellent example of a well-proportioned frontage in which the requirements of commercial display are adequately catered for without loss of professional dignity. What might have been an unsightly expanse of plate-glass has been relieved by a



fairly broad transome glazed in front with red glass with lettering, denoting the various departments, embossed and backed with white opal glass. The over-transome section is faced with plain plate-glass with carboys over each display window and a sign relating to photographic service in the centre. Harmonising with this central red band are the green fascia and stall-risers. The former is of plate-glass enamelled green with embossed letters gilded with gold leaf. The latter is faced with green-glazed tiles. Bronze-metal angle bars and sashes are employed throughout.

Business Changes

MR. F. C. JOHNSON, chemist and druggist, has commenced business at 110 High Road, Beeston.

MR. PHILIP MARCH, chemist and druggist, is joining his father, Mr. Frederick March, Ph.C., in partnership at 34 Fleet Street, Torquay.

MR. M. D. ELLISSON, chemist and druggist, has purchased the business of Mr. H. Sagar, chemist and druggist, at 354 Langsete Road, Sheffield.

The Assay of Hyoscyamus Leaves and Extract of Hyoscyamus, B.P.

By W. A. N. Markwell, F.C.S. and L. J. Walker, Ph.C., F.C.S.

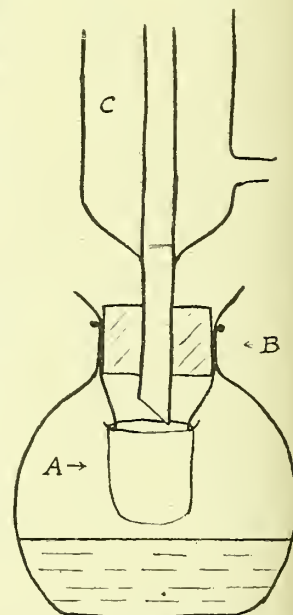
IN a paper read at the British Pharmaceutical Conference by Mr. C. M. Caines (abstract in *C. & D.*, July 6, p. 35) under the above title, a method of assay was suggested in which the drug was first exhausted by a process of percolation with 70-per-cent. alcohol. The author also suggested that there was no official process for the assay of henbane leaves. We would like first of all to point out that, while there is no monograph under "Hyoscyami Folia" giving a process of assay, there is a direction under "Extractum Hyoscyami" in which it is stated that the determination of the alkaloids is to be carried out as under "Belladonnæ Folia." This, therefore, is the prescribed B.P. method. The extraction of the alkaloids by means of a mixture of chloroform and ether, in the presence of ammonia, as directed in the B.P., we have found to work quite well. The method prescribed for the extracts is a process of percolation with acetic acid and 70-per-cent. alcohol; but, owing to the nature of the drug, percolation is difficult, and increased air pressure has to be used to cause the menstruum to pass. Further, we find that methods of percolation as a whole have a tendency to be tedious, inasmuch as constant attention is required.

A series of experiments was carried out last year in these laboratories to find the best method of extraction for the assay of the dried extracts of belladonna and hyoscyamus. The experiments included the following methods of extraction:—

- (1) The official process using 70-per-cent. alcohol and acetic acid.
- (2) Percolation with 70-per-cent. alcohol only.
- (3) Extraction in a continuous extraction apparatus with alcohol after moistening the drug with acetic acid.
- (4) Extraction method as described below, using s.v.m.

Method.—A weighed quantity of the extract is mixed with an equal weight of ignited sand. (Use 10 grams of ext. hyoscyami or 5 grams of ext. belladonnæ sicc.) A plug of cotton-wool is pushed down into the inner vase of a Bolton and Revis extraction apparatus as far as the constriction. The mixture of drug and sand is introduced, and finally another piece of cotton-wool is placed on top to prevent any extract being washed out. Extraction is carried out by means of methylated spirit kept gently boiling on an electric hot plate. The process is complete in from two to three hours. The alcoholic liquid thus obtained is then evaporated and assayed as for tincture of belladonna.

This method has been found quite satisfactory; extraction is complete and is accomplished with the minimum attention. A simple and convenient piece of apparatus is shown in the accompanying sketch. This can be used where a Bolton and Revis extraction is not available. The experiments described were carried out in the analytical laboratories of Potter & Clarke, Ltd.



Trade Notes

ICEFOAM.—F. W. Hampshire & Co. (1927), Ltd., Derby, urge chemists to order Icefoam through the usual wholesale channels. The requirements of wholesalers will be supplied by return train.

CLOSED FOR STOCKTAKING.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, are closing their warehouses on Saturday, August 31, for the purpose of stocktaking. Only emergency orders can be executed on that day.

UNITED PHOTOGRAPHERS, LTD., Liverpool, Manchester and Leeds, specialise in developing, printing and enlarging. The company does free motor collection within a wide radius of the above cities, and in order to provide a one-day service has day and night staffs at work.

ACETYLCHOLINE.—The British Drug Houses, Ltd., 16-30 Graham Street, City Road, London, N.1, inform us that they have undertaken the manufacture of stabilised acetylcholine, and for the benefit of those interested have prepared a booklet dealing with the use of the drug in the treatment of Raynaud's disease, arteritis, arterial hypertension and similar complaints. The literature and full particulars are obtainable on application.

VITAMIN MALT.—H. E. Stevenson & Co., manufacturing chemists, 122 Great Suffolk Street, London, S.E.1, have sent us a sample of their Zinyl Vitamin Malt. This product "is guaranteed to contain in each ounce 2,000 units vitamin A; 1,000 units vitamin D; and also to be rich in vitamin B." The extract resembles butter-scotch in flavour, and is made, it is understood, by a process which eliminates crystallisation. Further particulars of the Vitamin Malt, ordinary extract of malt and other packed goods are given in the company's price list, a copy of which will be sent on request.

Most chemists are well aware of the nature of the window displays suggested for Pharmacy Week, and that one proposal relates to articles employed in first aid. For use in the display and for sale to customers, Mr. A. E. Adams, 122 Cotterill Road, Surbiton, has brought out a dark oak case fitted with partitions so that thirty different articles can be accommodated. The cabinet (18 in. by 10 in.) can be placed on a shelf or screwed to the wall, and has double doors with bullet-catch fasteners. It is sent out empty so that the chemist can stock it according to the customers' requirements. For the Pharmacy Week display it is suggested that the chemist should place one in his window and run streamers from each of the component articles to a card indicating its name and purpose for which it is used.

"INTERNATIONAL TELEPHONE DIRECTORY."—Rassey Brothers, Bevois House, 28 Basinghall Street, London, E.C.2, have sent us a copy of the first edition of "A.T.I. (Annuaire Téléphonique International), the International Telephone Directory." Printed in English, French and German, the volume comprises two parts, the first being devoted to general information regarding service, charges and so forth, while the second contains the names of subscribers in each country arranged in alphabetical order, a trades index and a trades classification index. The actual number of entries in this issue of "A.T.I." is 12,120, spread over 1,485 towns in 27 different European countries. The list of the leading countries furnishes some interesting information about international trade:—

Countries	Entries	Towns	Countries	Entries	Towns
Germany ...	2,382	372	Spain ...	734	113
Great Britain ...	2,110	38	Sweden ...	659	115
Holland ...	1,376	220	Italy ...	547	46
France ...	1,353	129	Denmark ...	471	46

Although Germany leads in the number of entries in "A.T.I.," England is a good No. 2, but while the German entries are spread over 372 towns, the English entries are only spread over 38 towns, which seems to indicate that the international business of this country is centred in London.

Mr. P. BARTER, of the Ministry of Health, has been appointed secretary of the National Radium Trust, and Mr. Niven F. McNicoll, of the Department of Health for Scotland, assistant secretary.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1929, p. 333.

(From "The Trade Marks Journal," July 24, 1929.)

"EMESAY"; for surgical requisites (11). By The Medical Supply Association, Ltd., 167 Gray's Inn Road, London, W.C.1. B498,082.

"JOHANN MARIA FARINA ZUR MADONNA KOLN" on oblong label device; for eau de Cologne (48). By Louis Marx, trading as Johann Maria Farina zur Madonna, 10 Beethovenstrasse, Cologne, Germany. 497,214. (Associated.)

Device of central star with words "Star of Cologne" in six languages forming larger star (star device disclaimed); for toilet articles made in Cologne (48). By P. P. Mulhens, 26 Glockengasse, Köln am Rhein, Germany. 495,364.

"MALINI"; for perfumery, etc. (48). By Indian Drug and Perfumery Co., 303 Juma Musjid, Bombay, India. 499,727.

"MUSTOIDS"; for bath salts (48). By C. J. C. W. Hyne, Heaton Lodge, Park Drive, Heaton, Bradford. 501,279.

"ENOLIN SHAVING CREAM" on device of carton; for shaving cream made in England (48). By Enolin (1926), Ltd., 79 Mark Lane, London, E.C.3. 499,095. (Associated.)

"TRE-JUR" under picture of girl holding "compact"; for perfumery, etc. (48). By House of the Tre-Jur, Inc., 19 West 18th Street, New York, U.S.A. 501,508.

"PEARLEXO"; for brushes and manœuvre implements (50). By Casceloid, Ltd., Britannia Works, Cobden Street, Leicester. 501,570.

(From "The Trade Marks Journal," July 31, 1929.)

"FIBROTECT"; for all goods (1). By Berry, Wiggins & Co., Ltd., Tensulam House, Water Lane, Stratford, E.15. 503,342.

"ICEFA"; for all goods (2) and (3). By I.G. Farbenindustrie A.G., Mainzerlandstrasse 28, Frankfurt - on - Main, Germany. 503,261/263. (Associated.)

"GRANCRETA"; for fertilisers, etc. (2). By The Grancrcta Co., Ltd., 10 St. Paul's Street, Leeds. 503,357.

"WEMCOL"; for a sanitary chemical (2). By The Wembley Chemical Co., "Mayo," Selsmore Avenue, Hayling Island, Hampshire. 503,514.

"PARKINSON'S KILKOF" on label device; for a medicine for coughs, etc. (3). By S. H. Parkinson, Curzon Street Drug Mill, Burnley. B492,857.

"CALSOMA"; for a medicine to aid digestion (3). By Abbott Laboratories, Corner of 14th Street and Sheridan Road, North Chicago, U.S.A. 493,109.

"VITOZYME"; for medicinal chemicals for export to India (3). By Indian Drug and Perfumery Co., 303 Juma Musjid, Bombay. 499,725.

"STROPHALEN" and "EKZEBROL"; for medicinal chemicals (3). By E. Tosse & Co., Alter Teichweg 82, Hamburg 22, Germany. 503,213/214.

"PASTA PALM" on device including palm trees and monogram "PP"; ("Pasta Palm" and "PP" disclaimed); for a vegetable medicine (3). By P. Palm, Marktplatz 2, Schorndorf, Germany. 502,248.

"BINACAMA"; for medicinal chemicals (3). By John Richardson & Co., Leicester, Ltd., 62 Evington Valley Road, Leicester. 503,733.

"C & R LIVER SALTS" and "KEEP YOU IN THE PINK" with picture of man holding glass, on oblong shape ("C & R" and "Keep you in the Pink" disclaimed); for liver salts (3). By Cupal, Ltd., King Street Bridge, Blackburn. 502,427. (Associated.)

"HANAGRAPH"; for photographic apparatus (8). By G. H. Hana, 15 Leicester Square, London, W.C.2. 503,501.

"SAVAGE"; for surgical instruments, etc. (11). By Savage Arms Corporation, 100 East 42nd Street, Manhattan, New York, U.S.A. 504,115.

"SCHWEPES" on device of fountain; for mineral waters, etc. (44). By Schweppes, Ltd., 1 Connaught Place, London, W.2. 503,301. (Associated.)

"CRELINE"; for mineral waters, etc. (44). By Richardson & Co., 15 Bamborough Street, Byker, Newcastle-on-Tyne. 503,582.

"VALTOL"; for a stain-removing preparation (47). By The Harding Chemical Co., Ltd., New Thomas Street, Pendleton, Salford. 502,882.

"BUKABLOO"; for all goods (47). By The Greycoat Press, Ltd., Greycoat Place, London, S.W.1. 503,082.

"FRESIL"; for stain-removing preparations (47). By C. M. Mills, Spring Vale Works, Tanner's Lane, Pendleton, Salford. 503,683.

Births

Notices for insertion in this column must be properly authenticated.

CHAPMAN.—At "Drumloch," Shotts, on August 14, Elizabeth, the wife of William Chapman, M.P.S., of a son.

GREITON.—On August 17, the wife of H. T. A. Greiton, chemist and druggist, Front Street, Arnold, Nottingham, of a son.

Marriages

ARNOLD—HUTTON. — At East United Free Church, Brechin, on August 19, J. Arnold to Mary Fraser Stephen Hutton, chemist and druggist, elder daughter of Mr. J. Hutton, chemist and druggist, Brechin.

BOWEN—PATTERSON.—A* St. Paul's Church, Hammer-smith, London, W. 6, on August 17, James Emrys Bowen, B.Sc., A.I.C., Ph.C., lecturer at Birmingham Technical College, eldest son of the late Mr. J. Bowen, School House, Llanuwchllyn, to Margaret J. Patterson, elder daughter of Mr. Patterson, Fulham Palace Road, London, W.

GREEN—PEAKE.—At Christ Church, Sunderland, on August 14, by the Rev. Canon A. McCullagh, Fred M. Green, M.P.S., only son of Mr. F. Green, 12 Elwin Terrace, Sunderland, to Bessie M. Peake, M.P.S., only daughter of Mr. W. H. Peake, 9 Tunstall Terrace, Sunderland.

RUSSELL—WOODHURST.—At the Church of St. John, Hackney, London, N., on August 17, Frederick H. Russell (general sales manager, Tibo Products (International), Ltd.), to Blanche Woodhurst.

WOOLLEY—ASPINALL.—At Trinity Wesleyan Church, Blackburn, on August 15, William Edward Woolley, chemist and druggist (Cupal, Ltd., manufacturing chemists), to Marion E. Aspinall.

Deaths

CLARK.—At Braemar, on August 14, suddenly, Mr. Alexander Robertson Clark, chemist and druggist, aged fifty-eight. Mr. Clark served his apprenticeship with Davidson & Kay, Aberdeen, and commenced at Braemar more than thirty years ago. He was held in high esteem, and took an active part in the public life of the district. Mr. Clark is survived by his widow and his mother.

DANN.—In a Sheffield nursing home, recently, following an operation, Mr. Charles Dann, Ph.C. Mr. Dann, who passed the Major examination in 1897, went to Sheffield about sixteen years ago, and became manager of the drug department of a local co-operative society. He leaves a widow and two sons.

HITCHIN.—At Ilkeston, on July 19, Mr. Joseph Hitchin, chemist and druggist, aged thirty-seven.

McLAREN.—At Sunderland, on August 19, after a brief illness, Mr. William McLaren, L.M.S.S.A. Lond., chemist and druggist, 123 Herrington Street, aged fifty-four. Dr. McLaren commenced business as a chemist in Sunderland in 1900. He obtained his medical diploma in 1924, and set up in practice in the same town.

SCHRYVER.—At 32 Bolton Gardens, London, S.W.5, on August 21, Mr. Samuel Barnett Schryver, D.Sc., F.R.S., Professor of Biochemistry at the Imperial College of Science and Technology, London, S.W.7. Professor Schryver, who was born in London in 1869, held several appointments prior to joining the teaching staff of the Imperial College. He published numerous monographs, chiefly in scientific journals.

SHILLCOCK.—At his residence, Northcliffe Bungalow, St. Peter's Road, Broadstairs, on August 14, Mr. George Shillcock, Ph.C., aged seventy-six. Mr. Shillcock was a partner in the business of Shillcock & Son, chemists, High Street, Bromley, Kent, established in 1830 by the late Mr. J. B. Shillcock. He managed the pharmacy

with his brother, Mr. Sidney Shillcock, for forty years; eventually, owing to failing health, he retired. Mr. Shillcock is survived by a widow and four daughters.

WOOLLEY WALDEN.—The funeral of Sir Robert Woolley, Walden, D.L., J.P., LL.D., retired chemist and druggist, whose death was recorded in our issue of August 17 (p. 184), took place on that day at St. Luke's Parish Church, Whyteleafe, where his wife was buried in 1918. In addition to the family mourners, representatives of the following bodies were present:—The Westminster City Council, the justices of the Hanover Square division of the County of London, the Westminster Board of Guardians, the Metropolitan Asylums Board, the Metropolitan Water Board, and the Godstone Rural District Council.

Personalities

MR. B. A. BULL, Ph.C. (Boots Pure Drug Co., Ltd.), Nottingham, lectured on "Drugs, Ancient and Modern," at a recent meeting of the City Business Club.

MR. J. W. RUMSEY, chemist and druggist, Lordship Lane, Dulwich, London, S.E., and MRS. RUMSEY celebrated their golden wedding on August 16. This year is Mr. Rumsey's fifty-third in business at the above address.

MR. GEORGE S. WOOLLEY, a director of James Woolley, Sons & Co., Ltd., had a narrow escape from death recently when the car he was driving crashed into a level crossing at Houghton, near Preston. The car was wrecked, but fortunately the driver and passengers had time to jump clear.

MR. J. A. KENNINGHAM, organising secretary of the Proprietary Articles Trade Association, has returned from his tour of South Africa, Australia, New Zealand, Canada and the United States, having been absent from England since the beginning of January. Mr. Kenningham visited these territories in his official capacity. At Melbourne he was entertained by the presidents of the Pharmaceutical Society of Victoria, the Pharmacy Board, the Pharmaceutical Defence League, the P.A.T.A. of Victoria, and by other representative pharmacists; similar experiences followed in other centres visited.

Wills

MR. HENRY CUMING HARVEY, of 322 Hagley Road, Edgbaston, Birmingham, retired manufacturing chemist, died on April 23 last, leaving £93,223 18s. 11d., with net personalty £92,551 1s. 9d.

MR. WILLIAM BEVAN, Ph.C., of 19 Beverley Road, Colchester, of Beran & Stooke, 124 High Street, Colchester, left estate of the gross value of £4,445 18s. 8d., with net personalty £2,586 8s. 4d.

MR. JAMES WEST KNIGHTS, F.I.C., F.C.S., of 25 St. Barnabas Road, Cambridge, chemist and druggist, and public analyst, who died on February 6 last, aged seventy-five years, left estate of the gross value of £5,955 13s., with net personalty £5,382 18s. 4d.

MR. THOMAS EVANS, of 114 Upper Richmond Road, Putney, S.W., chemist and druggist, left estate of the gross value of £1,514 0s. 4d., with net personalty £968 11s. 6d. Probate of his will has been granted to his son John Bertram Evans, of Wymstay, Well Lane, East Sheen.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

B/208. Amp. Cignoagul	M/208. Nobolla ointment jars
K/78. Atoin	N/198. Sanora suspensory bandages
N/198. Dentalax tooth brushes	W/198. Sor lotion
K/78. Diatin	M/98. Stilbite (special kind of zeolite)
B/218. Digfolia	A/208. Thymocine ampoules
L/198. Hypercytol	F/48. Trualuni (or similar spelling)
B/198. Hypotax	
B/218. Oxydonor (present address)	

Observations and Reflections

By Krayser III

Words of Wisdom

make your article on the educational position (*C. & D.*, August 17, p. 188) one of special value to all who are interested in the future development of the British system for training pharmacists. Coming, as it does, at a time when that system is undergoing revolutionary change, the article merits the closest attention of your readers, particularly those who have anything to do with the training of apprentices. No rearrangement of the examination syllabuses, or modification of the procedure that attends the conduct of the examinations, can be expected to produce the desired results unless there is a radical reform in the treatment of budding pharmacists during the period of apprenticeship. As you so well express it, all the syllabuses and all the college training in the world will never compensate for slackness in training youth before habits are too strongly formed. Moreover, the existence of bad habits acquired during apprenticeship adds enormously to the difficulty of benefiting to an adequate degree during the collegiate course. It is unfair to blame teachers for all the weakness displayed by candidates when being tested in their knowledge of pharmacy, and particularly practical pharmacy, as the source of weakness must not infrequently be sought in the places where the candidates were apprenticed. It is above all necessary that we should get rid of the idea that apprenticeship is merely required in order that youths shall be trained, more or less efficiently, in business methods, and learn to dispense medicines. This period of pupilage must be regarded as one during which education, in the fullest sense of the term, is proceeding, and we should steadily discourage the tendency to look forward to the final collegiate course as the opportunity for making good all deficiencies.

Scholarships

are not only desirable as the means of providing or completing educational courses for those who are not too well off financially, though possessing brains and application sufficient to bring them into the front rank if opportunity permits, but they also provide an incentive to study which is invaluable. Assuming, as Mr. Hobart suggests (*C. & D.*, August 17, p. 181), that students who pass the Preliminary Scientific examination prior to apprenticeship may become rusty in their knowledge of the subjects of that examination before they enter upon their final collegiate course, preparation for a scholarship examination provides just what is required in the way of stimulus to keep one's knowledge fresh. In addition, such preparation causes one to go over the ground afresh, and possibly to attack the subjects from different angles, through the medium of other text-books than those originally used as guides. It is wonderful what a change of text-book may mean to a student, if only by making him realise that things are not necessarily true because they are stated in printed books. Slavish adherence to one particular text-book in any subject is apt to narrow the outlook on that subject, and narrow-mindedness in one direction may tend to influence the mind prejudicially in other directions. Reverting to Mr. Hobart's point, in regard to which his advice differs from that given in your article on the educational position (p. 187), I am disposed to think that he exaggerates the possibility of apprenticeship acting as a sort of "Water of Lethe," inducing forgetfulness. Details may be forgotten, but the knowledge of principles should persist unless the candidate has simply crammed for the Preliminary Scientific examination, and then been so unfortunate as to succeed in satisfying the examiners without good cause. My advice would be to enter for the Preliminary Scientific examination as soon as practicable after matriculation, and preferably before leaving school. After that, work for a scholarship is the best occupation possible for any apprentice of marked ability, and the employer who does not encourage his pupils to proceed on such lines is lacking in his sense of responsibility.

The Anti-Chain-Store Campaign

to which attention has again been directed in your columns (*C. & D.*, August 10, p. 163) was the subject of remark by me several weeks ago, and I am glad that further information on the subject is now forthcoming. Readers of the *C. & D.* will do well to study what is being attempted in the United States, with the object of strengthening the position of so-called "independent druggists" and the wholesale house which supplies them, because co-operation on similar lines between wholesalers and retailers in this country may conceivably become necessary in the not far-distant future.

Dr. Johnson's Name

must surely be the one most frequently mentioned in literary articles, with the one exception of Shakespeare's. Almost every day it is met with in some periodical or other. In one paper this week, on one page, is an announcement that a first edition of his Dictionary has been sold by auction for £195 (years ago it was possible to buy a copy for a few guineas), and, on another page, his authority as a dictator of the pronunciation of English is warmly discussed. The discussion revolves around the word "medicinal." Johnson in his dictionary states that it is "now commonly pronounced *medi-cinal*, with the accent on the second syllable; but more properly and more agreeably to the best authorities, *medici-nal*." The former of these is, I fancy, the more generally accepted one, and the one endorsed by modern dictionaries. It would seem from the discussion I have referred to that Johnson's reliance upon his authorities for his second pronunciation is an instance of his lexicographical inconsistency. This particular word supplies yet another example of his vagaries. There is frequent confusion in the employment of "medical" and "medicinal." Johnson's first definition of the latter word—"having the power of healing"—is the common acceptance, and his second—"belonging to physic"—is the sense in which "medical" is now used. The modern dictionaries define both words in the sense of belonging to medicine and "medicinal" as possessing remedial properties. Before Johnson's day "medicinal" was in vogue in the sense of our "medical," as appears from Bailey's Dictionary of 1733. This no doubt accounts for the title of Dr. James's Dictionary being "Medicinal Dictionary," which strikes one as very unusual.

The Production

of Dr. Johnson's Dictionary is one of the romances of the eighteenth century, and the manner in which it was produced is familiar to most people. The peculiarities of the work are many, but none of them has diminished the influence of the book as a notable landmark in the history of the English tongue. In a few cases either he or his assistants introduced into the stream of history of some words "snags," which are being eradicated rather slowly. One of these occurs in connection with the words *cocoa* and *coco*, the former being more generally used for the coconut than the latter. This confusion is recognised on all hands; it is remarked upon in Fowler's "Modern English Usage" in these words: "*Coco(a)*, *cocker*, *cacao* and *coco*, independent words, have corrupted each other till the resulting *cocoa* is used always for the drink and often for the *coco(a)*-nut palm." Before the time of Johnson there was no confusion. We may take Kersey's edition of "The New World of Words" (E. Phillips, 1706) and Nathan Bailey's English Dictionary (folio edition, 1733) as evidence, in both of which appear *cacao* and *coco* properly and distinctively described in terms of the products and the trees from which they are derived. Philip Miller was the botanical editor for Bailey's book, and he knew what he was dealing with. Neither Johnson nor his assistants appear to have had any wish to avail themselves of expert knowledge; consequently, we find in their work the two products jumbled together under the word "cocoa," and this notwithstanding that his two quotations manifestly refer to two different articles. I suppose that if he had been challenged on the subject his reply would have been equally honest and fearless as that given as an excuse on a similar occasion: "Ignorance, madam, ignorance!"

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(P.F. Vol. I)

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Editorial Articles

Merchandise Marks Act Prosecutions

THE cause of standardisation which we have so often advocated in these columns will undoubtedly gain impetus as a result of the conviction of a firm of "unqualified chemists" by the East Ham magistrate (*C. & D.*, August 4, p. 134). The prosecution, which was instituted by the Pharmaceutical Society, was under Section 2 (2) of the Merchandise Marks Act, 1887, and the three informations laid alleged (a) the application of a false trade description to goods sold, (b) the sale of goods so falsely described, and (c) having in possession such goods for the purpose of sale—all separate offences in respect of which separate penalties might be inflicted, though they were variations of the same set of facts. The magistrate inflicted a penalty of £20 in respect of one of these three informations and ordered payment of costs in the other two. The accusation was that chlorodyne had been sold to an inspector of the Pharmaceutical Society which was labelled "B.P. 85." but which, in fact, was totally devoid of morphine. The real points of interest attaching to this case are to be found in the departure which it marks from the ordinary procedure under the Sale of Food and Drugs Acts—the appearance of the Society as prosecutors in place of the local authority charged with the administration of those Acts and the adoption of the "false trade description" method of the Merchandise Marks Act as the basis of complaint in lieu of the more familiar "nature, substance and quality" allegation of the Sale of Food and Drugs Acts. That the facts in this case would have been sufficient to support a conviction under the last-named (now consolidated in the Food and Drugs (Adulteration) Act, 1928) we think admits of no doubt. Under the Merchandise Marks Acts procedure, however, the penalties applicable are very much more substantial and the formalities less intricate. The purchaser of an article to which a "false trade description" has been applied is in a much better position to take proceedings than he would be if the Sale of Food and Drugs Act procedure were the only course open to him. (Incidentally, we have been giving advice to this effect for several years.) That, however, is not the only aspect of this matter worthy of consideration. More far-reaching consequences may follow the extension of the Merchandise Marks Act procedure than appears at first sight. The definition of "trade description" given in that statute (Section 3 (1)) reads thus:—

The expression "trade description" means any description, statement, or other indication, direct or indirect, (a) as to the number, quantity, measure, gauge or weight of any goods, or (b) as to the place or country in which such goods were made or produced, or (c) as to the mode of manufacturing or producing them, or (d) as to the material of which they are composed . . . and the use of any figure, word, or mark which according to the custom of the trade is commonly taken to be an indication of any of the above matters shall be deemed to be a trade description within this meaning of this Act.

Now if the British Pharmacopœia prescribes that chlorodyne be made in accordance with a set formula,

and if one ingredient be wholly absent, there would appear to be an offence against the statute. Would there not also be an offence if the quantity of morphine were, say, one-half only of what the B.P. lays down? It seems to us that it must be so, since the article supplied does not correspond in its composition with that standardised under the B.P., and is therefore not in accordance with its proper trade description. Clearly the description "B.P. 1885" comes within the section. This broad principle appears to be much more clearly and intelligently recognised in the legislation adopted in the Union of South Africa, outlined in one of our editorial articles on July 27 (p. 116). That legislation proceeds on the sensible method of adopting the B.P. as a standard for drugs and of prescribing by regulation the standards of foodstuffs and of drugs which are not in the B.P., but which it is considered necessary to schedule. One great advantage in this method is to be found in the fact that it wipes out at once what may be termed the "tricky" methods of administration which have characterised the enforcement of food and drugs legislation in England. Here in England we have had a system of administration not based upon definite standards, but under which any astute local official may suddenly fix upon some wholly unimportant article, make purchases of it from all the chemists in his district (who unsuspectingly supply what has from time immemorial been supplied under the name used by the carefully instructed inspector sent to buy), and then spring a series of irritating prosecutions to try to get a definite standard fixed. That futile procedure has gone on now for fifty years, and the number of articles in respect of which a standard exists (outside the Pharmacopœia) can be counted on the fingers of both hands. The wastage of time, money and temper—not to speak of the injustice—that has marked this half-century of administration is wholly out of proportion to the good results achieved. The recent unsuccessful prosecution of a limited company (*C. & D.*, June 8, p. 676; June 15, p. 708) for selling coffee to which a false trade description was alleged to have been applied serves as a good illustration of the use to which, assuming the facts to warrant proceedings, the Merchandise Marks Acts can be put. We are bound to say that upon reading the evidence we find it difficult to understand why, in the circumstances, that particular prosecution was launched. That, however, is beside the point. What we are concerned to do at the moment is to point out to chemists the importance of being scrupulously particular about descriptions as to the qualities of articles they sell, not merely in order to avoid proceedings under the Merchandise Marks Acts which, even if abortive as in the caffeine case, are unpleasant and unprofitable, but also because it is not sound policy to offer to the public any article under a description the accuracy of which may have to be substantiated by scientific explanations that rarely carry conviction to the lay mind. We would also draw attention to the iodine case at Ealing reported in *THE CHEMIST AND DRUGGIST* of June 22 (p. 742). This is another illustration of the same thing in another form; but here the proceedings were taken under the Food and Drugs (Adulteration) Act, 1928. To supply an article labelled "tincture of iodine" when it is not tincture of iodine is, as we understand, also an offence under the Merchandise Marks Acts, since it amounts to a false description. This case adds weight to the point we have often emphasised, namely, the need for a general extension of the principle of standardisation to articles not merely in the British Pharmacopœia but in other works of recognised authority covering ground not covered by the Pharmacopœia. It also em-

phasises something else—the importance of educating the public to the fact that there is such a book as the B.P., that it is legally recognised as a standard, and that the pharmacist is the man who should be applied to for such articles as tincture of iodine (or "iodine," as the public generally describe it). This education of the public is a matter that might well be considered by the pharmaceutical world generally in its own interests.

Mercury Market Uncertainty

THERE are certain aspects of the mercury market to which we call attention, as they are of unusual interest and have brought about a complicated position such as has not been previously experienced in the metal. The first outstanding fact which emerges is the seriously diminished imports to London so far this year, which is referred to later. This, in turn, has led to a steady decline in the reserve stocks held here. On the other hand, there has been a heavy accumulation of stocks at the Italian and Spanish mines, the amount being estimated at well over 100,000 bottles. The position has also become more complicated by the fact that the United States consumption continues to expand by additional new uses, including mercury arc rectifiers in electrical transmission. A survey of more recent American accounts of market prospects would seem to show that there is far more fear in the American trade than on this side of a possible renewed advance in the price under the arbitrary policy which is being pursued by the Italo-Spanish combine. In a New York report it was recently stated that an important factor in the recent advance in the price up to \$123.50 on the spot duty-paid, has been the lack of domestic offerings, whilst it has been estimated that fully 80 per cent. of the domestic production has been contracted for several months ahead. This requires confirmation; but, assuming the figures to be approximately correct, and adding the fact that American production, which has been considerably stimulated by the high price, is now overlapping importations from Europe, the suggestion referred to of American consumption being at an increased rate does, therefore, not seem to be without foundation. During last month considerably larger quantities were purchased by the United States, and it is claimed that the spot supply has become unusually depleted, while there has been some talk of the prospect of a considerable price advance forthwith. It is to be hoped, however, that the Italo-Spanish Consortium will not become obsessed with the idea that they can enforce any higher figure they like, whatever there may be in the theory of increased American requirements. Undoubtedly leading European merchant firms will refrain as long as possible from making attempts to negotiate for the placing of large orders with the combine. Apparently there is a tug-of-war between the latter and the big merchant interests, and the London spot price has been kept for several months past at as low a figure as possible, in the neighbourhood of £22 2s. 6d. per bottle, less the customary discount. At the same time there is not the least indication of weakness on the part of the combine, the selling limit of which, as named by their Lausanne agency, being still £21 15s. per bottle f.o.b. port of shipment. The metal being already very dear, there does not appear to be any real justification for a rising market, considering that accumulations at the Italian and Spanish mines have now reached figures well in excess of a whole year's world's consumption. There is no doubt about this, as it is well known that only comparatively small quantities have been actually sold by the combine since the new selling arrangements came into force about ten months ago. The price was then pegged at the figure mentioned, which was, however, rather less than had been apprehended by merchant interests, who were thus to that extent upset in their calculations, having regard to their large stocks,

the liquidation of which proved a slow process. Naturally consumers throughout have been somewhat apprehensive of a break, but a period has now been reached when second-hand stocks are presumably nearing exhaustion, despite the conflicting statements made on the subject. The fact that there has this year been a considerably increased export demand on the London market must be attributed to orders being placeable here more cheaply than by direct purchases from the combine. This is fully reflected in the figures given below, which clearly indicate an impoverished supply.

Bottles	1927	1928	1929
U.K. imports, June	2,149	1,346	54
U.K. imports, Jan.-June ..	12,776	8,986	1,153
U.K. re-exports, June	43	822	607
U.K. re-exports, Jan.-June ..	379	2,651	3,105
U.K. net imports, Jan.-June ..	12,397	6,335	*1,952

* Net re-exports.

It will be seen that the paltry amount imported for the first six months of this year at 1,153 bottles is but little over what might be considered a month's home consumption, the normal rate of which is about 1,000 bottles. The U.K. re-exports for the six months were 3,105 bottles, so that there have been re-exports on balance of 1,952 bottles. These figures are certainly a novel feature in the history of the British market, and it can only be concluded that a state of stringency is threatened for the consumer, as available stocks over that period should have been depleted to the extent of roughly 8,000 bottles, allowing for home requirements of, say, 6,000 bottles. Of course, London importers must eventually protect themselves against the first-hand price, and they are making a determined attempt to fight the monopoly. The conflict, however, is becoming more difficult with depleted stocks, and some refrain from offering the metal. It remains to be seen what action will be taken by the monopoly, who probably have ample financing facilities at their disposal, and evidently believe that merchant houses will sooner or later be compelled to place large orders for fresh shipments in order to keep pace with users' needs, or else the latter would possibly have to be filled by direct purchases from the monopoly. In this case large users would be more independent of the London open market, the existence of which as a trade-controlling factor has become threatened, in the opinion of an American critic. It is unlikely, however, that the whole of the accumulation at the mines could be disposed of to merchant interests except at a material cut in the price; and there is little doubt that only a portion thereof would be parted with by the combine; but whether this would enable the latter to dictate higher terms is conjectural.

"Dangerous" Drugs Again

THE annual representative meeting of the British Medical Association had at least one item interesting to chemists: it was entitled "Dangerous Drugs: Heroin." The first resolution on the subject was one supporting the Council of the B.M.A. in its effort to obtain amendment of Section 3 of the 1925 Act, and recommending that heroin should come under the same conditions as morphine and its salts. The most interesting portion of the discussion was the statement made by Dr. Bone, a reputed authority on the Regulations. He said: "The idea that someone was going to die because he could not get heroin in this country was a huge fallacy." Surely, this was to miss the point altogether. It is not a question of dying, but one of simple relief for the dry, irritable cough for which this drug is the best remedy known. It is probably only a proof-reader's error that allowed the following misstatement to be passed for press: "In the case of morphine it was necessary to record anything over 0.1 per cent., and in the case of cocaine it was necessary to record anything over 0.2 per cent." Various bodies have substituted

ethylmorphine and codeine for heroin in order to avoid the Regulations. If this is not a consequence of bureaucratic interference it would be interesting to know what is. Dr. Bone recapitulated the history of the Geneva Convention and Home Office inquiries made at that time among the medical profession at some length. With this chapter of history our readers are already familiar. The Pharmaceutical Society's Council was similarly treated; neither the one Council's opinion nor the other counted in the least in this typical piece of bureaucratic legislation. We understand that heroin manufacture is prohibited in the United States, though we know that the drug is still available there. The B.M.A. discussion became confused in one or two instances. One speaker pointed out the impossibility of a doctor or dentist having his stock of "dangerous" drugs under lock and key, and, at the same time, having them available for inspection by a duly authorised person in his absence. The speaker had apparently overlooked pamphlet D.D., 101/3, par. 18, p. 6: "Doctors and dentists are advised to keep any dangerous drugs, when not in use, under lock and key, as far as possible. This is not actually required by the Regulations, but is obviously a desirable precaution." This sort of differential treatment in favour of the two professions should not continue. Considerable argument arose about the supply of the drugs to nursing homes, and on the question of records even Dr. Bone was at sea. Clause 32 of the instructions states:

"In private hospitals, sanatoria, nursing homes, and similar establishments, the full requirements of the Regulations must be strictly observed. No person in such places may be in possession of or administer the drugs unless he is a doctor or dentist or other person authorised by the Regulations, or unless he is administering the drug under the direct personal supervision and in the presence of a doctor or dentist, or unless the drug has been supplied on a prescription of, or dispensed by, a doctor for the use of a patient."

An incorrect answer was given on the question, "Who keep the records in a nursing home?" to which the reply was, "Every nursing home purchasing or using the drugs must have a register." The answer should have been: "No nursing home can purchase or use the drugs; in every case it is the medical officer who prescribes or supplies; if he supplies, he must keep the records, and if the chemist dispenses, the record is kept by the chemist." Discussions such as these, however, personal expression being permitted freely, are likely to keep the medical and allied professions in close touch with the complicated requirements of the Regulations.

St. Vincent Arrowroot

WITH a view to devising means for extending the uses and sale of arrowroot, the St. Vincent Arrowroot Growers' Association recently prevailed on the West India Committee to appoint a special representative to devote his whole time to a full investigation of the position. A number of reports were subsequently presented to the interested bodies and certain recommendations have been adopted which should open up further definite action. The previous haphazard methods of marketing have now given way to modern ideas and the arrowroot is now packed in uniform lever-lid tin containers as a pulverised or sifted product. It has been established that the old style of paper package resulted in contamination by the flavour of other goods stored in proximity. The Empire Marketing Board has undertaken to print and publish pamphlets of recipes, for which a big demand has been experienced among grocers. Funds have been provided by the Growers' Association for research on the dietetic value of St. Vincent arrowroot. The Empire Marketing Board has also promised to assist in the organisation of cookery demonstrations and lectures. In view of these activities it would appear to be opportune for retailers to stock and display this popular product lest yet another "chemists' line" slips through their fingers. Wholesale houses could probably assist in this effort by having prepared a range of sizes, such as $\frac{1}{2}$ lb., 1 lb. and 2 lb. tins, attractively labelled with suitable directions for use.

Rating Relief

REFERENCE was made in THE CHEMIST AND DRUGGIST of June 15 (p. 719) to the special valuation lists prepared under the Rating and Valuation (Apportionment) Act, 1928. It is the purpose of this article to supplement that reference by giving the relevant particulars contained in the Local Government Act, 1929, Part Five and the Ninth Schedule. This Schedule and subsequent rules and instructions issued recently to local authorities are of immediate importance, as these are "temporary provisions," and alter somewhat the procedure to be followed in regard to the making of objections.

This valuation is the first to distinguish, in special lists, hereditaments as industrial, agricultural, freight, transport, and otherwise, and will operate from October 1, with reduced rateable value for those accepted for inclusion for the rebates. Therefore, in order that the lists shall be as correct as possible, these temporary provisions allow the making of objections any time up to October 1. An objection can be made where no claim has previously been entered for inclusion and the claimant now wishes to be included as owner or occupier of an industrial hereditament. An objection also can be lodged by an owner or occupier to the value of a hereditament appearing in the special list. The rating authority and the Revenue officer can also enter an objection, notwithstanding that these two bodies have previously inserted in the list (or approved of) that value. In connection with the first objection, it should be noted that the rating authority will not insert as industrial any premises in the special list unless an objection as above is entered. Also the claimant will be required to enter on a form provided the same particulars as were required for a claim made before the draft lists were prepared. The gross value (if any) and the net annual value as shown in the main valuation list current April 1—September 30, 1929, shall, if altered on the judgment given on values as above, be altered to agree with the figures decided on the objection heard on the special lists. Thus rates from April 1 to September 30 will be adjusted accordingly. Afterwards the 75 per cent. rebate on these values will operate if hereditament is accepted as industrial. If any alterations are found to be attributable to some event which happened after April 1, they will only have effect from the date of the event as provided in Section 37 of the 1925 Act. An objection of any kind which is made prior to September 30, 1929, and is not determined until after that date, is to be deemed to have been decided on that date. The provision made that judgment on the special list shall be made retrospective to April 1 means that only one objection need be entered instead of one being made on the main valuation list and one on the special lists.

Ascertainment of Rateable Value of Industrial Hereditaments.—Section 68 provides that the rateable value from October 1, 1929, shall be one-quarter of that entered as "net annual value" on special lists. On these special lists claimants should note that "net annual values" will be shown for industrial and non-industrial parts. The rateable value will be one-quarter of that "net annual value" entered as industrial added to the full "net annual value" attributed to "non-industrial" parts, if any.

One-Man Business Worker.—Section 69 amends Section 3 (2) of the Apportionment Act, 1928, as follows:—

"For the purposes of this Act, a hereditament shall not be deemed to be occupied and used as a factory or workshop by reason only of the fact that the owner or occupier of the hereditament is the only person working therein, or that no other person working therein is in his employment." This, of course, is aimed at bringing in the one-man business worker, if other conditions make premises eligible for inclusion for the rebate.

Alteration of Status of a Hereditament.—Section 70 makes provision for the possible alteration in status of premises after October 1, i.e., premises which may become or cease to be industrial hereditaments. . . . and for the necessary insertion in lists then in force of any different description of premises. Action must be taken under Section 37 of the 1925 Act by a "proposal," and it is important to note that for the inclusion in lists of premises which may become industrial hereditaments only

the owner and/or occupier can apply for such alteration. Special forms for this purpose will be issued later. Should a rating authority wish to alter entries relating to premises which in their opinion . . . cease to be . . . industrial premises, the authority itself must make application to the assessment committee to give a decision on an objection entered as a "proposal" under the same section, before such alteration can be effected. If the occupier is not in agreement, then he can enter an appearance against it. Such change in status will have effect only from date when such alteration took place.

Rates Paid by Landlord.—By Section 11 (1) of the Rating and Valuation Act, 1925—the Principal Act—upon which the procedure of every other Act is based, rating authorities could compulsorily call upon the owner to pay rates instead of the occupier, the latter paying through an inclusive rent to the landlord. Section 71 gives the rating authority wider discretionary powers. In the 1925 Act compulsory resolution could not have effect if the rent was paid at quarterly or longer intervals. This section now gives the Rating Authority power, if they so decide, to put the resolution into effect at whatever interval rents are payable; but hereditaments with a rateable value exceeding £13 cannot be included in this compulsory resolution. (Note.—A rating authority and owner can come to a voluntary agreement, making the owner responsible for the rates also, for any rateable value, but only for hereditaments let at a shorter term than a quarter. Certain commissions are allowed the owner, and he must at stated intervals furnish the authority with certain particulars laid down in the 1925 Act, as to details of occupiers, etc.)

Inclusive Rentals.—Section 73 is most important to the occupier of industrial premises, where the landlord pays rates, the latter being part of an inclusive rent. The landlord is required to pay to the occupier, or to allow deduction of the said amount from rent, a sum equal to the difference between the rates payable under this Act, after deducting commission allowed by local authority—and the amount which formerly would have been payable at rate poundage on "net annual value." Thus, broadly speaking, the 75-per-cent. rebate is to be handed over to the tenant or occupier, notwithstanding that the actual cash payment is made to the authority by the landlord. If such premises rated as a single hereditament are let to more than one tenant, the rating authority can be called upon to certify the amount to be paid to each tenant.

Water Rates or Charges.—Section 77 makes provision that where the water charges are based on rateable value, for this purpose the rateable value as entered under this Act shall not apply, but that the water charges shall still be based on the "net annual value," that is, of course, before the 75 per cent. is deducted. Where "net annual value" does not appear in any valuation list, the value of the water charges is to be determined in case of dispute by two justices of the peace.

Various.—There are also other cases in which "net annual value" is to be substituted for the amended rateable value under this Act. Qualification of jurors and special jurors comes under this heading. Qualification of voters in respect of land will be taken as based on gross value. Drainage rates will be based on gross value as for income tax, Schedule A. If property is not so assessed, a court of summary jurisdiction is to decide in the event of any dispute.

Assessment Committees.—As boards of guardians are to be abolished as from April 1, 1930, from this date slight alterations will necessarily take place in the composition of assessment committees. Section 15 provides that, from this date, the assessment committee of a county borough shall be appointed by the council, but not less than one-third shall be persons outside the council. For any other assessment area, the committee shall consist of representatives of rating authorities and county councils. For London there shall be a separate assessment committee for the City of London, and for each Metropolitan borough. The number of members of each committee shall be determined by the Common Council or the council of the borough, and except in the case of the City of London, the London County Council shall appoint a representative—not an officer—on each committee.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Derbyshire.—The statistical data presented to the Derbyshire Insurance Committee for the quarter showed: Cost of ingredients, £3,143 10s. 6d.; dispensing fees, £4,335 3s. 8d.; prescriptions, 231,801; average cost of ingredients, 3.2d.; average dispensing fee, 4.5d.

Gloucestershire.—At a recent meeting of the Insurance Committee the Finance and General Purposes Committee reported that in the case of a doctor who was reported by the Medical Service Subcommittee to have improperly given a number of prescriptions during 1927, the Ministry had decided to increase the fine from £2 2s. to £5. In the case of alleged excessive prescribing by another panel doctor, when the Insurance Committee decided to withhold the sum of £15, the Ministry had reduced the sum to £5. A scrutiny had been made during the quarter of the prescriptions given in 1928 by 13 panel doctors. It was found that £17 7s. 11d. was recoverable from 11 doctors, of which £7 1s. 8d. was in respect of prescriptions given to persons who were not insured persons.

Kent.—At a recent meeting of the Kent Insurance Committee the Pharmaceutical Service Subcommittee reported having dealt with complaints against five chemists. In one case no action was taken, three were cautioned, and one severely censured. It was reported that the total cost of drugs supplied by chemists during the first four months of 1929 was approximately £4,800 in excess of the cost of drugs supplied during the similar period in 1928. The total number of prescriptions issued from January to April last was 588,353, compared with 460,099 for the corresponding period of last year.

London.—A meeting of the Insurance Committee was held recently. The Finance Subcommittee recommended the payment of accounts amounting to £65,142 4s. 6d. The accounts were passed. The Medical Benefit Subcommittee submitted the following statistics for the first quarter of the year 1929, with similar figures for the first quarter of 1923:—

	1928	1929
No. of prescriptions ..	2,471,203	2,997,065
Cost of ingredients ..	£37,655 1s. 8d.	£42,538 11s. 1d.
Cost of dispensing fees ..	£45,890 8s. 1d.	£56,800 16s. 2d.
Average ingredient cost ..	3.66d.	3.40d.
Average dispensing fee cost ..	4.45d.	4.55d.

The Pharmaceutical Service Subcommittee reported that they had investigated twenty cases of complaints against chemists for failure to comply with their terms of service: Nine were censured, and fines were recommended varying from £1 to £3.—The first meeting of the newly-elected Pharmaceutical Committee was held on July 16. The returning officer reported that the following pharmacists were elected:—Messrs. J. Angus, B. Abelson, S. B. Barnard, A. H. Jenkin, J. Keall, A. R. Melhuish, J. Milner, C. A. Noble, P. B. Phillips, D. A. Rees, W. E. D. Shirliff, P. Sparks, H. Skinner, J. A. Thompson, W. B. Trick and A. J. Wing. Officers were appointed as follows:—*Chairman*, Mr. A. H. Jenkin; *Vice-Chairman*, Mr. W. E. D. Shirliff; *Secretary*, Mr. G. A. Tocher. The retiring chairman (Mr. P. Sparks) was accorded a vote of thanks for his services. The secretary reported, *inter alia*, on delay in submission of accounts. The Committee decided to communicate their views to the Insurance Committee. An investigation of several bundles of prescriptions had been made, and complaints regarding ambiguous prescriptions and illegible signatures were substantiated. On a report being submitted to the Panel Committee, appropriate action was taken. The Pharmaceutical Service Subcommittee reported on a meeting at which five cases were considered under the testing scheme. There were two chemists cautioned, two censured, and in the remaining case no further action is to be taken.—The annual report of the Committee gives the following comparative statement for the years 1923-1928:—

Year	Number of prescriptions	Number of insured persons	Average prescription per insured person	Average cost per insured person
1923	6,132,356	1,593,151	3.85	30.98d.
1924	6,856,766	1,576,017	4.35	35.95d.
1925	7,408,518	1,608,973	4.60	37.57d.
1926	7,890,186	1,711,240	4.74	38.05d.
1927	8,743,249	1,778,563	4.92	40.16d.
1928	8,437,809	1,810,025	4.66	37.60d.

Middlesex.—At a recent meeting of the Insurance Committee, the Finance Committee reported the payment of accounts of £30,955 15s. 6d. and £8,763 18s. 10d. Among these were payments on drug accounts to chemists amounting to £4,859 17s. 2d. for 1928. For February accounts (drugs in full and 90 per cent. of value of fees) £9,077 3s. 10d. was paid, and for March on the same basis, £7,782 16s. 11d. The Pharmaceutical Committee has been paid £250 as expenses for 1929. The average cost of ingredients per prescription for the month of February was 3.7d., and dispensing fees 4.6d. For the month of March the average cost per prescription of ingredients was 3.8d., and dispensing fees 4.5d. Other matters concerning fines and the supply of poisons by unqualified persons were discussed.

Northamptonshire.—The Medical Benefit Subcommittee of the Insurance Committee discussed, at their last meeting, the superiority of Government lymph over other supplies and came to the conclusion that it was not within the province of the Insurance Committee to take any action.

Smethwick.—A meeting of the Medical Benefit Subcommittee was held recently. The following data were presented:—Prescriptions issued during the quarter ended March 31, 62,816; cost of ingredients (average, 3.2d.), £843 9s. 5d.; cost of dispensing fees (average, 4.6d.), £1,189 0s. 11d.; average cost per person, 13.8d.; average number of prescriptions per person, 1.78. The cost of general prescribing for the quarter was inflated as a result of the severe epidemic of influenza.

SCOTLAND

Abordeenshire.—The clerk of the Insurance Committee submitted a communication to the effect that blank prescription-forms had been signed and issued by certain doctors. There was no reason why a remit to investigate should not be made to the Medical Service Subcommittee. This course was agreed to.

Edinburgh.—At a meeting of the Insurance Committee of the Burgh held recently, a report by the Pharmaceutical Service Subcommittee dealt with the quality of a bandage supplied by a chemist which was found to be below the requisite standard. The Subcommittee recommended that a penalty be imposed. The recommendation was adopted.

Lanark.—A circular issued recently by the Pharmaceutical Committee requests chemists to rectify irregularities in prescriptions, as far as possible, before forwarding them for pricing. The irregularities that occur most frequently are as follows:—(1) Proprietary preparations; (2) appliances not on schedule; (3) forms belonging to other areas; (4) not stating the number of hypodermic tablets in a tube; (5) doctors omitting to insert the stock index mark when ordering emergency drugs and appliances; (6) supplying on orders for emergency drugs and appliances more than allowed on the list.—A circular issued by the Insurance Committee states that seventeen prescriptions have been obtained for testing (fourteen for drugs and three for appliances). In one case powders varied in weight from about 10 gr. to 17 gr. In another case where an ounce of an ointment had been prescribed only half an ounce was at first supplied. In the third case the weight of cotton-wool supplied was seriously deficient, while in the fourth case a tincture which was supplied was four times the strength of that prescribed. In addition to these four cases which were dealt with by the Pharmaceutical Service Subcommittee, there were several others which were on the border-line.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, August 22

BUSINESS in pharmaceutical chemicals is mostly routine and confined to small lots as is usual at this period, prices mostly continuing unchanged. English makers of cocaine alkaloid and hydrochloride have rearranged their prices, small lots showing an advance in values. Vanillin ex clove oil has again been reduced to meet foreign competition ex guaiacol carbonate. Cream of tartar is well maintained. Phenacetin and phenazone are steady. Among drugs, Norwegian cod-liver oil is about 5s. higher owing to forward business. Orris is on the easier side, but no substantial decline is expected in new crop prices. New chamomiles command attention, but another fortnight may elapse before the market outlook is clearer. Senega is unchanged and Russian anise is cheaper on the spot. Spanish ergot has a tendency to improve. English refined camphor is 2d. per lb. dearer. In essential oils there are no outstanding changes in price. Star anise is firm and dearer on spot. Bergamot, lemon and Japanese peppermint are easier. Java citronella is firm for forward shipment, and wormseed is firmer. Spearmint is dearer. Among the industrial chemicals quiet markets are reported in all directions with no important price changes. Acetate products are firm and in fair demand; formaldehyde continues to meet with keen competition. Carbolic acid crystals are likely to remain in short supply for the remainder of the year. Among the fixed oils quiet conditions continue with prices well maintained. Linseed is firmer for forward delivery. Groundnut, palm, rape and soya are all easier; turpentine is quiet and unchanged. In the metal group, antimony is in fair demand, cadmium is easier, and mercury is more firmly held.

Higher	Firmer	Easier	Lower
Anise oil, star	Carbolic acid	Bergamot oil	Anise (Russ.)
Camphor	(crystals)	Cadmium	Palm oils
(Eng. ref.)	Citronella oil	Groundnut oil	Pepper
Cod liver oil	(Java)	Lemongrass oil	Rubber
(Norw.)	Ergot	Lemon oil	Shellac (spot)
Cream of tartar	Linseed oil	Menthol	Soya oil
Rose petals (Fr.)	(forward)	Peppermint oil	Spike oil
Spearmint oil	Mercury	(Jp. dement)	Vanillin (ex
(c.i.f.)	Wormseed oil	Rape oil	clove oil)

Crude Drugs, etc.

ACONITE.—Napellus is quoted at 67s. 6d. per cwt. c.i.f. ALOES.—Curaçao in cases is dearer for shipment from New York at 115s. per cwt. c.i.f. for t.q.

The exports from the Union of South Africa during April amounted to 69,196 lb. (£2535) against 111,604 lb. (£945) in April 1928. During the four months ended April 30, 1929, the exports were 462,553 lb. (£2,804), against 313,031 lb. (£2,606) in the corresponding period of 1928.

ANTIMONY.—There is a fair demand for Chinese regulus on the spot, which is quoted £32 to £32 5s., but demand for forward shipment is slow, with terms at upward of £29 10s. c.i.f. Spot crude is quite nominal at about £26 10s.

ARNICA FLOWERS.—The season has been good for both flowers and leaves. Price quoted is 1s. 9d. to 1s. 10d. per lb.

BALSAMS.—Tolu is firmer at 4s. c.i.f. and 4s. 3d. is quoted on the spot. Good hard Peru B.P. is unchanged at 8s. 3d. on the spot. Canada balsam is quiet in drums at 5s. to 5s. 3d. per lb.

BELLADONNA ROOT.—Spot is offered at 55s. per cwt., and for belladonna leaves to come forward 55s. c.i.f. is quoted.

BUCHU.—The exports from the Union of South Africa during April amounted to 16,552 lb. (£564), against 25,955 lb. (£1,041) in April 1928. During the four months ended April 30, 1929, the exports were 100,497 (£3,594), against 85,935 lb. (£3,553) in the corresponding period of 1928.

CADMIUM.—The tendency has been easier, due to the marketing of some cheap parcels in one direction, apparently on Continental account. Spot quotations range from about 3s. 11d. to 4s. per lb. for home consumption, but lots for export have been sold down to about 3s. 9d.

CAMPOR (REFINED).—The English refiners announce an advance of 2d. per lb. in the price of refined camphor flowers, which are now quoted at 3s. 4d. per lb. and at 3s. 3d. for 23-lb. lots; tablets are quoted at the usual differences. Japanese 2½-lb. slabs are offered at 2s. 5d. per lb. on the spot and August-September shipment is 2s. 4d. c.i.f.; ¼-oz. tablets are 3s. 3d. spot and Japanese flowers 2s. 11d. spot.

CARDAMOMS.—An auction of 89 cases will be held to-day (Thursday).

CHAMOMILES.—The Belgian crop is in course of collection, and the early pickings are of fairly good quality, although the samples seem to be on the small side. As is usual at the opening of the season, there appears to be a difference of opinion between buyers and sellers as to the size of the crop, the former maintaining that it is a fair average, while the latter assert that it is short. Naturally the crop will be collected as early as possible in view of the prevailing high prices, which range from about 210s. to 220s. per cwt. Speculators have been selling first pickings in blank for August-September shipment at 195s., and for September-October shipment at 165s. per cwt. c.i.f. Old crop Belgian of fair quality can be had at 135s. on the spot.

CLOVES close steadier, Zanzibar selling at 1s. 2d. per lb. on the spot; August shipment is 11½d. August-October 9½d. c.i.f. and October-December at 9½d. c.i.f. The landings of Zanzibar in London during the week ending August 17 were nil, and the deliveries 41, leaving a stock of 1,665, against 6,636 in 1928 and 11,199 in 1927; the stock of Madagascar is 393. The landings of Zanzibar to date have been 5,034, against 12,422 in 1928, and the deliveries 5,756, against 15,170 in 1928. The exports of cloves from Zanzibar from January to April 1929 amounted to 23,395 cwt., against 84,918 cwt. for the corresponding period of 1928.

COD-LIVER OIL.—Cabled advices received on Monday indicate that Norwegian prices have advanced about 5s. per barrel all round. This is due to a number of forward contracts executed during the past few days. It would appear that Norwegian stocks have been sensibly reduced, the moderate prices having led to increased consumption. This is confirmed by the fact that up to date this season 68,061 hectolitres of medicinal oil have been exported compared with 38,571 hectolitres a year ago. Quotations in most instances are without engagement and vary from 105s. to 110s. per barrel c.i.f. for finest new non-freezing steam-refined Lofoten oil.

In the course of a recent report on the trade of Norway issued by the Department of Overseas Trade, it is stated that the temporary law of July 17, 1925, regarding an export tax on cod-liver oil to cover the cost of advertising Norwegian medicinal oil abroad, was replaced on June 22, 1928, by a new temporary law which differs but little from the earlier law. Publicity having been given to statements that adulterated consignments of medicinal cod-liver oil had been shipped from Norway, and that the reputation of Norwegian medicinal oil was consequently in danger of becoming compromised, a temporary law was passed on June 22, 1928, authorising the Crown to introduce regulations for checking the quality of such oil before export.

DIGITALIS LEAVES show a firmer tone at 55s. per cwt.

ERGOT has a firmer tendency, with Russian on the spot offering at from 1s. to 1s. 2d. per lb. as to quality. Spanish is offered on the spot at 2s. 6d., and for new crop Spanish and/or Portuguese c.i.f. sales have been made at about 2s. per lb.

GALLS.—Chinese are firm, with sellers at from 55s. to 57s. 6d. per cwt. c.i.f. for August-September shipment for both ordinary and plum shape.

GENTIAN.—Spot supplies are temporarily short, offering at 37s. 6d. per cwt., but new crop French will be available shortly.

GUM ACACIA.—The market has been slightly affected during the week owing to Continental profit-taking, but England has bought up the offers and the tone is now steady to firmer, with the likelihood of a further advance. Kordofan, cleaned, is now 127s. 6d. per cwt. on the spot, and natural 120s.; no shipment offers of old crop are available. New crop is more active, sellers quoting cleaned for December-January shipment at 90s. c.i.f., January-February at 85s., and February-March at 82s. 6d. c.i.f. Natural is 5s. less than the foregoing. Talha is exhausted on the spot; December-January and January-February shipment is offered at 43s. c.i.f.: the quantities offering are quite moderate.

HYDRASTIS is firming up after a period of neglect; 13s. 3d. to 15s. 6d. c.i.f. is quoted.

INSECT FLOWERS.—Fairly good closed Dalmatian flowers offer at about 165s. per cwt.

MAGNESIUM is steady, with a moderate demand, and British makers are quoting from 3s. 3d. up to 3s. 9d. per lb. for small ingots and sticks, while ribbon is priced at 11s.

to 14s., and wire at 7s. 6d. to 12s. 6d., and powder ranges from 4s. 6d. to 7s. 6d. per lb., according to specification.

MENTHOL meets with a steady sale on the spot at from 19s. to 19s. 3d. per lb. for Kobayashi-Suzuki, and a fair business has been done in forward deliveries, including July-August shipment at 18s. 3d., September-October at 17s. 9d., and October-December at 17s. 6d. c.i.f.

MERCURY.—There has been as yet no indication of a fresh move, but there has certainly been no giving way in quotations, which on the spot have been more firmly held at fully £22 5s. per bottle, less the usual discount. It can hardly be said that there has been, so far, any material increase in inquiries from consumers, who are disinclined to buy in excess of urgent requirements, but the statistical position at this end has been steadily growing stronger, due to the lack of new important imports. The near future may possibly see more life in the market, and the tendency in not a few quarters is apprehended to be towards a stiffer level of values. U.K. imports for last month were only 224 bottles, making a total of 1,377 bottles for the seven months, which compares with 9,716 bottles for the same period last year.

ORRIS.—The position at the source still remains very firm, and no substantial decline is looked for in new crop when available as the demand is expected to be maintained in view of the short supply. New Florentine to be shipped in September is offered at 127s. c.i.f. for sorts. Spot values of fair are from 130s. to 150s. per cwt.

PEPPER has been dull and easier. Fair black Singapore is 1s. 4d. spot; June-August shipment is 1s. 1½d., and October-December 1s. 1½d. c.i.f. Lampong is 1s. 4½d. spot; June-August shipment has been sold at 1s. 2½d. to 1s. 1½d. c.i.f., and August-October at 1s. 1½d. Muntok white is 2s. 4½d. spot; afloat has been sold at 2s. 4d. c.i.f. June-August has been sold at 2s. 2½d. to 2s. 1½d. c.i.f.

PIMENTO is quiet at 1s. 2d. per lb. spot. August shipment is 119s. and August-October 111s. per cwt. c.i.f.

The drought in Jamaica (according to the correspondent of "The Times" Supplement) has been very severe in certain sections of the island, and the minor products, including coffee, cocoa, ginger, pimento, annatto and honey have suffered. The most badly hit is the pimento crop, which two months ago promised well and showed signs of a fairly good yield. This has caused intense disappointment to the planters, as the total production of pimento this season (1929) is not expected to exceed 50,000 bags. But if this estimate is realised it will be better than last year's crop, which was the smallest recorded for over 25 years, resulting in less than 40,000 bags, or about one-half the average.

RHAPONTICA.—Chinese is quoted at 9½d., Austrian at 8d., and French at 4d. per lb.

ROSE PETALS.—The French crop is proving poorer than anticipated, and holders are now asking 6s. per lb.

RUBBER.—The market is again easier, spot having declined ¾d. on the week. At one period spot was done at 10½d. per lb., but at the close 10¾d. was paid. The fall in price is due to weakness from the East, combined with New York selling. Considering that spot at the beginning of the month stood at 11¼d. per lb., the drop of ¾d. per lb. is a substantial decline. At the present level of prices, it is expected that manufacturers will be attracted, as most of them hold stocks costing considerably more. Last week arrivals were very substantial, and totalled 3,633 tons, whilst deliveries were 1,509 tons, showing a further increase in the stocks of 2,129 tons. The London stock now stands at 33,573 tons, against 32,591 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and August, 10¾d.; September, 10½d.; October-December, 10½d.; January-March, 11d.; April-June, 11¼d. per lb.

SARSAPARILLA is in rather better demand. Grey Jamaica is from 1s. 9d. to 1s. 10d. and native Jamaica is from 1s. 7d. to 1s. 9d.

SEEDS.—ANISE.—Spanish is 67s. 6d. and Russian is now offering at 27s. per cwt. spot. CANARY.—The market is quiet with sellers of Mazagan on the spot at 24s. 6d. For shipment no business has been done this week. The price quoted is 24s. c.i.f. Saffi remains at 24s. spot and 23s. 9d. c.i.f. for August-September shipment. CUMIN.—A little business has been done on spot at 70s., and for August-September shipment 58s. 6d. per cwt. c.i.f. has been paid for Morocco. FENUGREEK.—There is no Morocco to be had on spot at the moment. The c.i.f. price remains at 17s. for August-September shipment. Indian is to be had at 19s. ex wharf. CORIANDER remains very quiet with sellers on spot at 11s. 3d. For shipment there are sellers at 10s. per cwt. c.i.f. LINSSEED on the spot is firm at 23s., and for shipment 22s. c.i.f. is the price. FENNEL.—Indian on spot is 67s. 6d., and for August-September 60s. c.i.f. is quoted. MUSTARD remains firm at 23s. 6d. to 32s. 6d. per cwt. according to quality. DUTCH CARAWAY remains at 42s. per cwt. on the spot. New crop for prompt shipment is quoted

at 37s. c.i.f.; September at 37s. 6d., and October-December shipment at 37s. 9d. c.i.f.

SENEGA is unchanged with spot sellers quoting 4s. 6d. per lb., and for shipment 3s. 9d. c.i.f. is quoted.

SHELLAC is rather lower, the spot price of usual standard TN orange closing at 197s. 6d. per cwt.; fine orange is 230s. to 300s., pure button 235s., and AC cakey 207s. 6d. to 210s. To arrive, TN afloat is quoted at 189s., August 192s., September 193s., and October 194s. c.i.f. Futures are steady, the sales including August at 198s., October at 202s. to 201s., and December at 205s. to 203s. 6d.

STRAMONIUM LEAVES are dearer at 56s. per cwt. c.i.f. for green Hungarian.

TAMARINDS.—Supplies of West Indian are exhausted on the spot, both in first and second hands.

WAX (VEGETABLE).—Japanese is steady at 82s. per cwt. on the spot, and for August-September shipment 74s. c.i.f. is quoted. Carnauba is unchanged. Fatty grey is 115s. on the spot and August-September shipment 110s. c.i.f.; chalky grey is 112s. 6d. and 107s. c.i.f. Prime yellow is 160s. spot and 145s. c.i.f. Mediana is 150s. spot.

Essential Oils

CITRUS oils are in poor demand, and the market lacks normal activity. Bergamot and lemon are easier. Geranium oils are firm, and Java citronella is firmer to come forward. Japanese peppermint is slightly easier, and American peppermint to come forward is higher, the spot prices quoted being nominal. Sassafras for shipment is dearer, and wormseed is very firm.

The following are the quantities and values of natural essential oils (other than turpentine) imported into and re-exported from Great Britain during July 1929, compared with the same months in 1927 and 1928, also for the seven months ending July in the respective years:—

		1927	1928	1929
July imports	.. lb.	322,348	340,490	260,067
	value	£81,547	£87,029	£102,374
Jan.-July imports	.. lb.	2,133,603	2,450,479	2,370,809
	value	£637,079	£679,132	£871,666
July re-exports	.. lb.	65,582	42,155	94,476
	value	£23,435	£23,574	£31,130
Jan.-July re-exports	.. lb.	473,850	473,233	496,239
	value	£196,595	£180,415	£226,518

ANISE (STAR).—Anise is very firm as far as c.i.f. prices are concerned. For July shipment 3s. 3d. c.i.f. has been quoted, for second-hand oil naturally. First-hand offers come as far off as October-November, and the price varies from 3s. 2d. to 3s. 3½d. for leads. There is no quotation for tins, and drums are quoted at 2s. 9d. to 2s. 10d. On the spot the price for leads has advanced, while there are no drums obtainable, and the quantity of tins is negligible. "Red Ship" is firm and dearer on the spot at 3s. 6d. per lb. for leads in cases, and 3s. 3d. for tins in cases.

BERGAMOT is easier and is quoted on the spot at 16s. to 17s. per lb. for 33 per cent. l.a., and to arrive at 16s. to 16s. 3d. c.i.f.

CANANGA.—Java is unchanged at 10s. 6d. to 11s., in drums, on the spot.

CASSIA is unchanged at 4s. 9d. to 4s. 10d. per lb. for leads in cases, on the spot and for shipment 4s. 1½d. to 4s. 3d. c.i.f., and 3s. 11d. per lb., in drums, c.i.f.

CEDARLEAF is firm at 6s. 3d. c.i.f.

CEDARWOOD is neglected at 1s. 3d. per lb. on the spot.

CHAMOMILE.—Blue chamomile is quoted at 140s. per lb.

CITRONELLA.—Java citronella is quoted at 2s. 7d. to 2s. 8d. c.i.f. for prompt shipment, and for 1930 at 2s. 9½d. c.i.f. The spot price is 2s. 6d. to 2s. 7d. per lb. Ceylon is rather scarce on spot and has a strong market. The price quoted is 2s. to 2s. 1d., and to come forward at 1s. 9½d. to 1s. 10d. per lb. c.i.f.

GERANIUM.—Bourbon is quoted at 19s. 6d. to 20s. 6d. per lb. on the spot, and to come forward at 19s. 9d. to 20s. c.i.f. The position is firm. Algerian is quoted unchanged at 21s. 6d. per lb. on the spot.

LAVENDER.—For new crop French 15s. 6d. per lb. is quoted on the spot and the position is very firm.

LEMON.—New crop to arrive is easier at from 14s. 6d. to 15s. 6d. per lb. c.i.f. The spot price is from 14s. 9d. to 15s. 6d.

LEMONGRASS is slightly easier. The spot price is 2s. 8d. to 2s. 9d., and to arrive 2s. 5½d. to 2s. 6d. c.i.f.

LIME.—The position is unchanged since last week. The price quoted for West Indian distilled is about 34s. per lb. on the spot and 31s. to 31s. 6d. c.i.f.

MANDARIN is quoted on the spot at 27s. per lb.

ORANGE.—Orange oils are unchanged at 17s. 6d. per lb. for Sicilian, and to arrive at 17s. to 17s. 6d. c.i.f. West Indian is quoted at 17s. per lb. and 16s. c.i.f.

PALMAROSA is quoted at 11s. 9d. to 12s. on the spot. The c.i.f. position is very firm.

PATCHOULI is very firm at 22s. to 22s. 6d. on the spot. The c.i.f. price is 21s. 6d.

PEPPERMINT.—Japanese dementholised is easier on the spot at about 6s. 3d. per lb. for Kobayashi-Suzuki, and forward position is quoted at 5s. 9d. per lb. c.i.f. American peppermint continues very firm and forward prices are 16s. 6d. c.i.f. in tins and 16s. in drums. Prices are expected to advance. H.G.H. is quoted at 21s. 6d. on the spot.

PETITGRAIN.—Paraguay is unchanged at 7s. 6d. to 7s. 9d. per lb. on the spot.

SANDALWOOD.—Western Australian remains firm and unchanged at from 17s. per lb. for French Codex specification and up to 20s. 6d. per lb. for special quality.

SASSAFRAS.—There is a scarcity of supply of the source. The position is firm and prices forward are 4s. 6d. to 4s. 9d. and 5s. 6d. per lb. on the spot.

SPEARMINT is rather higher at 20s. 3d. c.i.f. Reports from the American side state that the crop will be smaller owing to drought having affected the plants in many districts.

SPIKE.—Spike oil is cheaper owing to lower collecting costs of the herb this year. The spot price is 2s. 7d. to 2s. 8d. per lb.

WORMSEED (CHENOPodium) is quoted at 12s. 9d. to 13s. 6d. c.i.f. The spot price is about 13s. 6d.

WORMWOOD is very scarce on spot and the price quoted is 102s. to 105s. per lb.

The following arrivals have taken place from the countries indicated during the period July 31 to August 6 cinnamon (Cey.), 1 cs.; citronella (Cey.), 6 dm.; eucalyptus (inclusive): Basil (Sey.), 1 cs.; bergamot (U.S.), 2 cs.; (Jap.), 32 cs.; geranium (Fr.), 2 dm.; lemon (It.), 11 cs.; lemongrass (Cey.), 6 dm.; lime (B.W.I.), 1 cs.; orange (It.), 2 cs.; (B.W.I.), 10 cs.; parsley (Ger.), 1 cs.; patchouli (Sey.), 3 cs.; (Kenya) 8 dm.; (Straits), 14 cs.; peppermint (U.S.), 1 dm.; (Jap.) 45 cs.; pine (Ger.), 1 dm.; rose (Fr.), 2 cs.; sage (Sp.), 1 dm.; savin (Sp.), 2 dm.; undescribed (Fr.), 17 cs., 2 dm.

The following arrivals have taken place from the countries indicated during the period August 7 to August 13 (inclusive): Almond (Fr.), 34 cs.; bergamot (Fr.), 2 cs.; (It.) 19 cs.; cajuput (Jav.), 2 dm.; cedarleaf (U.S.), 1 dm.; eucalyptus (Sp.), 25 cs.; geranium (Fr.) 2 dm.; (Neth.) 1 cs.; lemon (It.) 11 cs.; (Neth.) 2 cs.; lemongrass (Fr.), 1 cs.; lime (Brit. Gu.), 10 cs.; orange (Neth.), 1 cs.; patchouli (Kenya), 8 dm.; peppermint (Jap.) 70 cs.; (Ger.) 2 cs.; (U.S.) 2 dm.; 4 cs.; petitgrain (Jap.), 8 cs.; rose (Swit.) 1 cs.; (Fr.) 12 cs.; sandalwood (Fr.), 1 cs.; sassafras (U.S.), 2 cs.; wormseed (U.S.), 4 cs.; undescribed (Ger.) 1 cs.; (Fr.) 2 dm. 6 cs.

Pharmaceutical Chemicals, etc.

THE usual quiet tone for this time of the year is reported, while prices generally continue steady. Home makers of cocaine hydrochloride and alkaloid have rearranged their prices with the result that small lots are dearer. Barbitone seems likely to advance. British vanillin ex clove oil is lower.

ACETANILIDE continues to be quoted at about 1s. 5d. to 1s. 6d. per lb. for B.P. crystals and powder; business limited.

AMIDOPYRIN is unchanged; business has been unimportant: spot, 10s. 7d. to 11s. 1d. per lb. as to quantity; f.o.b., ten cwt., 10s. 6d.; five cwt., 10s. 8d. per lb.

ASPIRIN remains quiet, with the market quotation standing at about 2s. 9d. to 3s. per lb. as to quantity; some offers are at lower prices.

BARBITONE is well maintained on spot as mentioned at 6s. 6d. to 7s. per lb., and there is not much available. Continental makers are still unwilling to quote.

BENZALDEHYDE (.03) is quiet and unchanged: quantities, 1s. 10d.; small lots, about 2s. per lb.

BENZOIC ACID remains slow of sale: quantities, ex works, 2s. 1d.; spot parcels, about 2s. 2d. per lb., ex store.

BROMIDES.—Business has been unimportant, while quoted prices are unchanged. Dealers quote: ammonium, 1s. 10½d. to 1s. 11d.; potassium, B.P., 1s. 7d. to 1s. 7½d.; granular, 1s. 6½d. to 1s. 7½d.; sodium, B.P., 1s. 9½d. to 1s. 10d. per lb. for quantities in cases. British makers' list prices are also unchanged: ammonium, 1s. 11½d.; potassium, B.P. crystals, 1s. 8½d.; granular, 1s. 7½d.; sodium, B.P., 1s. 10½d. per lb. in cwt. lots.

CALCIUM LACTATE is unchanged on a dull market: quantities, 1s. 2d.; smaller parcels, up to 1s. 3½d. per lb.

CHLORAL HYDRATE (duty-paid crystals) meet with little demand: quoted from 3s. 1d. to 3s. 3d. per lb., as to quantity.

CITRIC ACID (B.P. crystals).—The spot market remains cheap compared with forward offers, while business is poor

for the time of year: foreign, on spot, is 2s. 0½d. to 2s. 1d. per lb., less 5 per cent., for good-sized quantities.

COCAINE.—Home makers' prices for hydrochloride and alkaloid have been re-arranged with the result that small lots are dearer. They are now as follows: Hydrochloride, 1 to 15 oz., 19s. 3d.; 16 to 24 oz., 18s. 11d. per oz., packages extra; 25 oz. or more, 18s. 7d. per oz., packages free. Pure alkaloid, 1 to 15 oz., 21s. 3d.; 16 to 24 oz., 20s. 11d. per oz., packages extra; 25 oz. or more, 20s. 7d. per oz., packages free.

COUMARIN is quoted at from 8s. to 8s. 3d. per lb., and may go higher.

CREAM OF TARTAR is well maintained at last week's prices of 100s. per cwt. net. for foreign 99 to 100 per cent. powder.

GUAIACOL CARBONATE remains slow of sale, with dealers offering at about 4s. 6d. to 5s. per lb.

HEXAMINE is steady on a subdued market: quoted from 2s. 3d. to 2s. 6d. per lb.

HYDROQUINONE is slow of sale and unsteady: quoted from 3s. 8d. to 3s. 11d. per lb., as to quantity.

METHYL SALICYLATE is steady at from 1s. 6d. to 1s. 8d. per lb.; there are, however, isolated offers at cheaper prices.

METHYL SULPHONAL is unchanged on a steady market: quoted, as to quantity, at from 12s. 7d. to 13s. 10d. per lb.

PARAFORMALDEHYDE remains slow of sale: quantities, in kegs, 1s. 7d.; smaller parcels, up to 1s. 9d. per lb.

PARALDEHYDE is unchanged on a dull market: quoted from 1s. 1d. to 1s. 4d. per lb., as to quantity and packing.

PHENACETIN continues in usual demand on a steady market: ten cwt., 3s. 2½d. up to 3s. 7d. per lb. for small parcels; f.o.b. Continent, about 1d. per lb. less.

PHENOZONE is steady on a slow market; ten cwt., 5s. 9d. up to 6s. 1d. per lb. for small parcels; f.o.b. Continent, about 1d. per lb. less.

PHENOLPHTHALEIN remains quiet, with controlled prices unchanged at 5s. 11d. to 6s. 1½d. per lb., as to quantity.

POTASSIUM PERMANGANATE remains in poor demand, but prices for B.P. are steady at 6d. for quantities, in drums; small parcels, 6½d. per lb.

POTASSIUM SULPHOGUAIACOLATE is neglected: dealers quote spot at about 4s. per lb.

SACCHARIN.—Judging from sales this year, it appears that the reduction effected in the price of British saccharin recently has had the effect of displacing sugar to an appreciable extent in the manufacture of aerated waters.

SALICYLIC ACID (B.P.).—The usual small demand is being experienced and the price is firm at from 1s. 5d. to 1s. 7d. per lb.

SODIUM DIETHYLBARBITURATE is firmly held on spot at 7s. 9d. to 8s. per lb.

SODIUM SALICYLATE (B.P.) is unchanged at home makers' prices: ten-cwt. lots, 2s. 2d. up to 2s. 4d. per lb. for small parcels.

SULPHONAL continues at agreed prices: ten cwt., 10s. 1d. up to 11s. 2d. per lb. for small lots of crystals; powder, 1½d. per lb. more.

TANNIC ACID.—B.P. *teriss* is dull: quantities, 2s. 10d.; small parcels, 3s. per lb.

TARTARIC ACID (B.P. crystals).—The spot market continues generally firm, with a fair business passing: quotations for fair quantities of foreign are in the region of 1s. 4½d. to 1s. 4¾d. per lb.

THEOBROMINE.—The pure theobromine is quoted at 5s. 3d. per lb. c.i.f., and theobromine sodium salicylate at 4s. per lb. c.i.f. Spot prices are from 7s. to 7s. 1d. and 5s. 6d. per lb. respectively.

THYMOL is quiet, with prices unchanged: synthetic, fine white, 9s. 1d. to 9s. 3d. per lb.; ex ajowan seed, 11s. 3d. per lb.

VANILLIN.—A further definite step to meet the competition of foreign guaiacol vanillin has been taken by the British makers, who have reduced their price ex clove oil to 14s. 4d. per lb. for ton lots, taken over six months.

Industrial Chemicals, etc.

London, August 21

QUIET markets are reported from all quarters, but the general tone continues steady, there being little change to record.

ACETIC ACID continues very steady and fairly active: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store.

ACETONE is firm and business continues good: B.G.S., £76 to £85 per ton, in drums, ex store, as to quantity.

AMMONIA (ANHYDROUS) is unchanged, with a fair amount of small business being done: quoted from 10d. to 1s. per lb., in loaned cylinders, carriage paid; slightly less for big contracts.

AMMONIUM CHLORIDE is quoted by dealers at £21 to £21 7s. 6d. per ton for grey galvanising, in casks, ex store.

ARSENIC.—Demand has been somewhat better, with Cornish agents asking £16 5s., and even £16 10s., for white powder, f.o.t. at the mines, but not a great deal of business has been done.

BARIUM CHLORIDE is bright, with spot prices for 98 to 100 per cent.; prime white crystals steady at £11 10s. per ton, in casks, ex store; f.o.b. Continent, £10 5s. for quantities.

CAUSTIC POTASH is unchanged at Convention prices; business is still limited: 88 to 92 per cent. solid, £31 15s. to £35 15s. per ton, in drums, ex store; c.i.f., 30s. per ton less in all cases.

COPPER SULPHATE.—There continues to be a slow demand and quotations of British makers have fluctuated down to about £26 10s., less 5 per cent., f.o.b., while about £27 10s. is asked by associated makers on the firmer tendency of rough bar copper. Cheap parcels are being still offered from the Continent down to £24, f.o.b., for casks.

FORMALDEHYDE continues keenly competitive, with 40 per cent. by volume round about £35 per ton, in casks, ex store.

FORMIC ACID is quoted in the region of £41 to £42 per ton for 85 per cent., in carboys; business remains quiet.

ISOPROPYL ALCOHOL is receiving fair inquiry, with dealers' prices about 11s. to 12s. per gallon, in drums, carriage paid.

LEAD PRODUCTS.—Convention prices for red and white leads, dry and ground in oil, are unchanged. Lead acetate is about steady; white, £40; brown, £39 7s. 6d. per ton, in casks, ex store.

LITHOPONE has been in a little better demand of late, with 30 per cent. Continental red seal at £19 10s. per ton, in casks, ex store; slightly less for contracts.

OXALIC ACID has been moving moderately well, with prices for large quantities steady at £30 per ton, ex wharf; spot, 32s. 6d. per cwt., ex store.

POTASSIUM CARBONATE shows no further change in prices, but business remains slow: 90 to 92 per cent., £24; 96 to 98 per cent., £25 10s. per ton, in casks, ex store; slightly less for contracts.

POTASSIUM CHLORATE is dull and unsteady: quantities to arrive, about 2½d.; spot parcels, from 3d. per lb., ex store.

POTASSIUM PERMANGANATE remains slow of sale, with quantities of commercial quality, in two-cwt drums, 5½d. per lb.,

POTASSIUM PRUSSATE is steady, with a fair business passing: yellow, £63 10s. to £65 10s.; single casks, 7d.; small parcels, 7½d. per lb., ex store.

SODIUM ACETATE.—Spot is £21 10s., in casks, ex store; quoted prices are steady, business fair.

SODIUM CHLORATE is very quiet and unsteady: quantities to arrive, 2½d., ex wharf; spot parcels, from 3d. per lb., ex store.

SODIUM HYPOSULPHITE is steady, with dealers quoting pea crystals in one-cwt. kegs at £15; commercial, £9 10s. per ton, in casks, ex store. British makers' price for pure crystals to home consumers on contract, £15, carriage paid to buyer's station.

SODIUM PRUSSATE is moving in fair quantities: quantities, about 4½d. to 5d.; smaller parcels, about 5½d. per lb.

SULPHUR is steady with a fair demand for crude, which is £5 12s. 6d. to £5 17s. 6d., while Sicilian flowers stand at £12 7s. 6d., refined ground at £9 15s., and roll at £9 15s., all c.i.f. to arrive.

ZINC OXIDE is steady at makers' prices: B.P., £45; white seal, £42; red seal, £41 per ton, delivered.

COAL-TAR PRODUCTS, ETC.—The market for pitch has now been "pooled," and prices are not likely to move for some months ahead. Carbolic acid crystals are again firmer in dealers' hands on a bright market. Other items are about unchanged. **ANILINE OIL** continues steady and in fair demand at 8½d. per lb., packages extra, carriage paid. **ANILINE SALT** is unchanged on a fairly good market at 8½d. per lb., packages extra, carriage paid. **BETANAPHTHOL** is steady for quantities at 10d. per lb., carriage paid. **CARBOLIC ACID (ICE CRYSTALS).**—Makers are unable, as yet, to report any change in the short position which has existed for some weeks, and it would appear that there is not likely to be any substantial increase in supplies available before the New Year.

CRESYLIC ACID.—The pale 95 to 97 per cent. quality is still being asked for and the price has remained firm from 1s. 11d. to 2s. 1d. per gallon, naked at works. The dark 95 per cent. quality is obtainable at about 1s. 7d. per gallon, naked at works. **CREOSOTE OIL** is steeper: ex works, 4½d. to 4½d.; f.o.b., 6½d. per gallon, in bulk quantities. **NAPHTHALENE** is about steady, with flakes and balls at about £15 15s. to £16 per ton, in cases, ex wharf. **METHYL ALCOHOL** is quoted at about £45 per ton, in drums, but much lower prices are taken for good business. **PYRIDINE** is idle: nominal at 4s. to 4s. 6d. per gallon, c.i.f. **TOLUOL** continues steady but rather quieter: commercial 90's, 1s. 9d.; pure, 1s. 11d. per gallon, at works. **XYLOL** is unchanged on a dull market: commercial, about 1s. 10d.; pure, about 2s. per gallon, naked at works. **PITCH.**—The price for some time ahead has now been fixed at 45s. per ton, f.o.b. East Coast.

Fixed Oils, etc.

GENERALLY quiet conditions continue in this section. Quoted prices are fairly well maintained. Linseed oil is firmer forward, while turpentine is unchanged and quiet. Palm oils are again easier. **ACID OILS.**—Quiet markets continue, with prices steady: coconut and/or palm kernel, 33s. 6d.; ground nut, 31s. 9d.; soya, 23s. spot. **CASTOR** is quiet but steady: pharmaceutical, 49s. 6d.; first pressings, 45s.; second pressings, 42s. spot in barrels, in not less than one-ton lots. **COCONUT.**—Deodorised is steady on spot at 41s.; Ceylon is cheaper at 33s. 9d. o.i.f.; Cochin, 45s. c.i.f.; market dull. **COTTON** is steady but quiet: deodorised, 42s. 6d.; common edible, 40s. 6d.; soapmaking, 37s. 6d.; crude, 36s. spot. **GROUND NUT** is quiet and easier: deodorised, spot, 45s.; crude Oriental, 33s. c.i.f. **PALM KERNEL** continues steady: deodorised, 41s. 6d.; crude, 37s. 6d. spot. **PALM.**—Prices show a reduction for all grades and the market closes dull: Lagos, 33s. 9d.; softs, 33s. 1½d.; mediums, 33s. 6d.; hards, 34s. 6d.; bleached, 35s. 9d. spot. **RAPE** is quiet and slightly easier: refined, 45s.; crude, 43s. spot. **SOYA** is easier and very quiet: deodorised, 39s. 6d.; crude, 36s. spot. **LINSEED** (raw, naked).—The market has improved on the week and is firmer forward, closing steady. On spot, 37s.; September, 35s.; September-December, 34s. 10½d.; January-April, 34s. 3d. Boiled oil, spot, 40s. 9d. **TURPENTINE.**—Despite the slightly firmer advices received from across the Atlantic, there has been continued dullness, but there has been little alteration, spot closing quiet at 42s. 6d.; September-December, 42s. 6d. per cwt. Deliveries for last week were poor, amounting to 1,675 barrels, making a total of 62,157 barrels since January 1, which compares with 67,626 barrels for the same period last year. Stocks were 13,420 barrels, against 22,281 barrels a year previous. Including the quantities in the course of landing and affloats the London visible supply made up at 24,320 barrels, which compares with 35,126 barrels and 39,934 barrels respectively two years previous. **RESIN.**—The undertone was firmer, but buyers remained reserved. C.i.f. quotations for shipment from America were as follows: B/K 18s. to 18s. 3d., N. 18s. 7½d., W.G. 18s. 9d., and W.W. 19s. 10½d. per cwt. Spot terms ex wharf stand at about 6d. more, while W.W. is, however, held for a premium of over 1s. per cwt. **WOOD.**—Hankow in barrels, is quoted at about 76s. per cwt. on the spot. August-September shipment is 72s. c.i.f., and September-October 71s. 6d. c.i.f.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Business generally has remained very slow, while quoted prices are unchanged. **BENZOL** continues in brisk demand at full prices: standard motor, 90's, 1s. 8½d. to 1s. 8½d. per gallon, ex works, in tank wagons; ex London works, 2d. per gallon dearer. **FUEL OIL** is unchanged on a slow market: 950 gravity, £3 5s.; 890 gravity, £3 17s. 6d. per ton, ex tank; slightly cheaper forward. **PARAFFIN OILS** continue firm at unchanged prices: American standard white, 1s.; water-white, 1s. 1d. per gallon, in barrels, ex wharf. **PARAFFIN WAX** and **SCALE.**—Wax is quiet and quoted at from 2d. to 4½d. per lb., according to melting point, in bags; scale is quoted at about £16 per ton, c.i.f. London. **WHITE OILS** continue in limited request, with prices steady: special No. 1, £32 7s. 6d.; No. 1, £23; No. 3 half-white, £20 10s.; No. 4 half-white, £19 15s. per ton, drums and barrels free, ex wharf. **SOLVENT NAPHTHAS** have again been rather slow: 90 to 160, 1s. 2d.; heavy 90 to 190, 1s. per gallon, naked at works. **PETROLEUM JELLIES** are quiet: white to snow-white, £36 10s. to £47 10s.; amber and yellow, £17 15s. to £22; drak stiff green, £11 12s. 6d. per ton, barrels free, ex wharf. **LUBRICATING OILS.**—Quiet conditions continue. Spot: pales, £10 to £22 10s.; reds, £11 7s. 6d. to £22; dark cylinders, £14 15s. to £36 5s.; filtered cylinders, £23 to £42 per ton as to quantity, less 2½ per cent. **SOLUBLE OILS** and **CUTTING COMPOUNDS** remain at £20 to £23 per ton net. No. 1 **RUSSIAN OIL** is offered on spot at £14 10s. per ton, less 2½ per cent., barrels free, ex wharf.

Japanese Insect Flowers

THE exports of insect flowers from Kobe during the first three months of 1929 decreased by 1,956,000 lb. in quantity compared with the corresponding period of 1928. The decrease occurred principally in shipments to the United States, which fell by 1,580,000 lb. compared with the corresponding period of 1928. The fall in exports was caused by the heavy purchases by American consumers during the early part of the present crop season (June to December 1928), when purchases were made at fairly high prices. With the appearance on the market of unexpectedly large stocks of old pyrethrum flowers, prices declined. Since the beginning of the year American consumers, with their immediate requirements already filled by stocks on hand, have withheld from large purchases in expectation of a further fall in price.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

A New Photographic Film Advocated

SIR,—I think the question of the 6d. bazaar film is one that interests us all more or less. Now my idea is that this film (four exposures for 6d., not to mention a first-class emulsion) is just the price a film should be. I think that the standard price of $3\frac{1}{4}$ in. by $2\frac{1}{4}$ in. film (1s. 2d. for six exposures) is much too dear, and has been for the last three years. The only hope of a good photographic season next year would be if the standard makes put out a six-exposure film to retail at 9d.—to change it to 1s. would not do a bit of good. At 1s. 9d. two films would be sold in most cases against one at 1s. 2d. I also think the charge for developing and printing should be somewhat altered, perhaps as follows: D. and P. six-exposure, 1s.; develop only, 6d.; prints, 1d. each. My idea is to make this size about 95 per cent. of all sizes used (present figure is said to be about 54 per cent.), and to this end I should not alter prices of other sizes to same extent, neither price of film, nor D. and P.—in fact, in the case of the V.P. eight-exposure film I would charge 8d. for developing. Need I point out the advantage of concentrating on one size? It would reduce film stock to a quarter of the present; we might keep three or four makes of $3\frac{1}{4}$ in. by $2\frac{1}{4}$ in., and one make only of all other sizes. By the way, why should we chemists (England, Ireland, Scotland, Wales) not combine to get and sell a film only to be got at chemists? Say Ucal took up the supplying of chemists only with this 9d. film, we could smile at any outside film, as fortunately the public still have faith in the unfortunate, down-trodden chemist and what he recommends.

Yours, etc.,
RADIO (17/8).

SIR,—Several correspondents have dealt recently with the increasingly competitive position of the photographic dealer. The question of the 6d. film referred to by Mr. Wride (*C. & D.*, August 10, p. 175) is one that cannot be ignored, but it cannot be settled by the dealer. Experience shows that this price of film is becoming more and more popular among a certain section of the public; therefore, it would be wiser to grapple with the situation before it develops further. This is really a problem for the film manufacturers, who can solve it by: (a) Reducing the price of films to an approximate figure, i.e., 9d. for a six-exposure $3\frac{1}{4}$ in. by $2\frac{1}{4}$ in.; (b) or if that is uneconomic, by the introduction of a special 6d. film; (c) a conference of film manufacturers with the maker of the present 6d. film, with a view to its abolition. While there may be arguments for and against the box-camera coupon scheme, there seems no doubt but that the D. and P. trade has benefited considerably by the wider use of films. The makers of box cameras, by evolving new models, have helped to stimulate the sales of cameras.

Yours faithfully,
DEALER (20/8).

Proprietaries in N.H.I. Dispensing

SIR,—In connection with the matter so ably written about by "Observer" (*C. & D.*, August 3, p. 146), proprietaries for N.H.I. patients, in which he refers to the difficulty of chemists stocking any and every proprietary, and states that "no chemist can be expected to stock two different packings of every article, one for Insurance dispensing and one for retail sale," the burden of stocking a very extensive range of proprietaries is one that is already shouldered by the majority of pharmacists. To avoid such onus being cast upon chemists, I would suggest one solution which seems feasible to me; that is, removing the stamp from the article dispensed

and pasting it on the N.H.I. prescription. It would then devolve upon the Pricing Office to obtain a rebate from the Government Department concerned, with whom arrangements could be made.—Yours faithfully,

ARKAY (5/8).

Small Orders

SIR,—I fear Mr. J. Milner's suggestion (*C. & D.*, July 27, p. 127) of a 2d. or 3d. sale limit is not a "safe" one. We cannot afford to despise the humble penny. Any chemist who will take the trouble to perambulate working-class districts anywhere, can by visiting not only grocers' shops but small general ones, also tobacconists', hairdressers', and even drapers', together with market-stalls, see numerous (chemist) lines offered at 1d. Money is now scarce (with the best spenders, viz., the working class), and the public generally are not slow to discover where it will go farthest. The cut-rate "retail at wholesale prices" cigarette stores are proof of this, they are always crowded; consequently I recommend stocking and selling (when insisted on) all popular 1d. lines, but only displaying a limited number of them, and keeping larger packets of similar goods, neatly packed and well to the front, to be invariably introduced by the salesmen, who should point out the advantages of buying them. Mr. Milner's plan, if adopted, would probably result in driving customers elsewhere, and (like the chamois skins trade, once extensive and profitable for chemists but now non-existent) would kill the demand for other lines which help at least to attract customers. Breaking bulk is another practice which needs careful consideration, though to many objectionable; I know a chemist who can dispose of quite a quantity of Ovaltine rusks, while his competitors content themselves with "keeping" unopened boxes. I am, however, a firm believer in obtaining good prices when and where they can be safely demanded.

Faithfully yours,
H. C. M. (5/8).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

A Remedy for Stings

In a recent issue (*C. & D.*, August 3, p. 136) there appeared a note on the efficacy of local applications of plantain leaves (*Plantago major*) in treatment of insect-stings. The common dock is a favourite remedy in Ireland for application to nettle-stings. The leaves are chewed and applied immediately to affected parts.—H. C. (20/8).

A Hot-Weather Problem

The preparation of pilula phosphori, B.P., is a matter of considerable difficulty and some danger in hot weather. In the process of drying on absorbent paper before weighing, phosphorus has the habit of curling up in a small ball and then taking fire. The difficulty of dealing with the mass may be minimised by using two bone or wooden spatulas; but the better plan is to have ice at hand and use it freely for cooling. There is also the question of varnishing of the pills. Perhaps the best varnish is mastic or sandarac dissolved in absolute alcohol.—*Abel Scholar*.

An Original Method

One of the best methods of testing the fitness of students for presenting themselves for examination that I remember was that adopted by a teacher of pharmacy, now unfortunately no longer with us. He used to devote a certain time after the day's routine work was done to asking viva-voce questions, and the students sat round while he fired questions at them on any subject, materia medica, pharmacy, chemistry, etc., and the student had to answer as promptly as he was questioned. This gentleman had an uncanny knack of remembering one's weaknesses, and the same subject cropped up again and again until the answer was forthcoming without hesitation. Needless to say, his percentage of successes was a high one.—*Successful* (29/9).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Alpha (17/8).—REMOVING TATTOO MARKS.—Various agents have been suggested for removing tattoo marks, including salicylic acid, tannic acid, silver nitrate and nitric acid, the object in each case being to promote inflammation in the skin in the hope that the colouring matter may be shed with the slough. The following papain solution has been warmly recommended:—

Papain	...	...	...	...	5 gm.
Water	...	...	...	...	25 gm.
Dilute hydrochloric acid	...	...	...	...	1 gm.
Glycerin	...	...	...	...	75 gm.

The following extract is also of interest:—"... the methods which Cattani finds most successful are Vario's galvanocauterisation under local anaesthesia, 'harpoon-ing,' or 'digging out' each granule of pigment (Wederhake's method), and excision of the skin. Vario's procedure begins with a preliminary cleansing of the skin, on which a concentrated aqueous solution of tannin is applied. With the tattoo needle the pigmented area is now freely punctured, and into the punctures thus made silver nitrate is repeatedly rubbed, and the skin is then strewed with powdered tannin. A protective dressing is applied, and after a short time a violent inflammatory reaction follows with swelling and necrosis of the skin. After two to four weeks the crust thus formed is discharged, and the underlying structures, which are at first red, pale gradually in a few months. A slightly raised scar is left to indicate the site of the tattooing. Cattani has never seen permanent ill-effects follow this method, which, he admits, is painful as well as requiring much time and patience. He refers to a case recorded by Parent-Duchatelet in 1857, where the removal of tattoo marks by caustics terminated in death." Other methods were referred to in the *C. & D.*, 1923, II, 719 and 860.

Kentish Chemist (19/8).—There are so many factors to be considered (particularly the quantities applied, kind of the soil, nature of plants and subsequent rainfall) that it is impossible to answer your question, but creosote and carbolic acid are the most likely, and naphthalene the least likely, to have any deleterious effect.

P. N. T. (19/8).—BOOK DISINFECTION.—The stringent rules at hospitals for infectious diseases forbidding the removal of any book which has once been taken into a ward indicate that there is no satisfactory method of sterilising contaminated volumes. Paper money is generally stoved before being returned to the owner. Exposure in a formaldehyde atmosphere for a time might prove satisfactory. A small cupboard with a perforated false bottom would be suitable for this purpose.

E. A. (16/8).—TAR SOAP.—For making coal tar soap the best base to employ is a good milled soap prepared by the grained process. Coal tar soaps have largely been replaced by the wood tar variety, i.e., birch tar (5-10 per cent.), juniper tar and Stockholm tar. Before crutching the tar into the soap it is usually neutralised with alkali, while in order to maintain a standard of intensity and permanence of colour a small amount of aniline black is generally incorporated. After crutching the soap is framed, slabbed and milled in the usual way. A milled tar soap can be made by mixing 40 lb. of yellow soap stock with 5 lb. of tar. A cold process is as follows:—

Tallow	...	...	...	...	271 lb.
Coconut oil	...	...	...	...	271 lb.
Soap scrap	...	...	...	...	130 lb.
Pine tar	...	...	...	...	73 lb.
Soda lye (36° Bé)	...	...	...	...	340 lb.
Sodium silicate	...	...	...	...	35 lb.
Potassium carbonate solution (36° Bé)	...	...	...	...	9 lb.

Heat in a steam-jacketed crutcher to 180° F., the tallow, coconut oil and tar, add the scrap soap and melt. Then run in the lye and silicate. Crutch for five minutes, allow to stand one hour and crutch till combination is complete. Then add the potassium carbonate

and crutch until the soap becomes thick and smooth. The mass is then run into a frame and allowed to cool. Coal tar soaps, which can be made in the same way, should not contain more than 3 per cent. of phenols (for toilet soap) and can be perfumed with lavender or cassia.

G. D. (20/8).—Any unusual effect of medicine is commonly explained as being due to an idiosyncrasy on the part of the patient. The action of antipyretics shows considerable differences in cases that are regarded as comparable, but it is not possible to assume that the tablets to which you refer are of this nature.

O. H. (17/8).—*ÆGYPTIACUM*.—Verdigris liniment is now chiefly used by veterinarians as an escharotic. The formula is as follows:—

Verdigris (in powder)	...	...	3j.
Vinegar	...	...	5viij.
Clarified honey	...	...	3xiv.

Dissolve the verdigris in the vinegar, strain, add the honey and boil to a proper (pourable) consistence.

D. D. (14/8).—DISINFECTANT SPRAY.—See *C. & D.*, 1929, I, 402.

Legal Queries

Lignum (19/8).—As a general rule, preparations containing tincture of cantharidin must have the proportion declared on the label and cannot be sold by unqualified persons. The only exception is the type of preparation containing so minute a quantity as to come within the "de minimis non curat lex" principle mentioned with approval several years ago by a High Court judge.

J. G. W. (24/7).—Does an unqualified person who carries on a drug store enjoy the same privileges as a registered chemist in the matter of selling medicines after the closing hours prescribed by the Shops Acts and on Sundays? [The Acts provide an exemption in favour of "the sale after the closing hour of medicine or medical or surgical appliances, so long as the shop is kept open only for such time as is necessary for serving the customer." There is no discrimination in the Acts between qualified and unqualified shopkeepers. As regards sales on Sundays, a chemist is in the same position as an unqualified person.]

X. Y. Z. (12/8) holds combined shop and house premises under a twenty-one-years' lease, which will expire on September 29, 1930, the rent being £30 a year. Can he claim an extension of the lease or, alternatively, compensation for having to vacate the premises? The landlord offers to sell the property, but "X. Y. Z." does not wish to buy. [It would seem that "X. Y. Z." will be entitled to the protection of the Rent Restriction Acts; but, in any case, he should, before September 29 next, give his landlord a year's notice claiming a new lease or compensation for loss of goodwill. A new lease will not, however, be granted if the landlord offers to sell the premises to "X. Y. Z." at a reasonable price, nor if a money payment will adequately compensate "X. Y. Z." for having to leave the premises. The notice must be given in the statutory form, and we advise "X. Y. Z." to consult a solicitor.]

Retrospect of Fifty Years Ago

Reprinted from
The "Chemist and Druggist," August 15, 1879

Fucus Vesiculosus for Obesity

Dr. Carson, Portrush, Ireland, writes to "The British Medical Journal": "'Anti-fat,' now much advertised as a remedy for obesity, is stated to be an extract from the *Fucus vesiculosus*. Some who are paying expensively for the remedy may be surprised to hear that the *Fucus vesiculosus* is here largely used as a food for pigs, and that it in no way interferes with their growth. It will require a number of well-reported cases to convince me that what fattens a pig will make a Christian lean. I have myself visited a sty to verify the fact that it was really the *Fucus vesiculosus* which the pigs were getting."



[Commenced C. & D., July 5, 1924]

Rochelle Salt.—See Sodium Potassium Tartrate.

Rock Salt.—Native sodium chloride with a small proportion of impurities. If these are ferric salts, the colour of the salt is reddish or brownish; other metallic contamination results in other colourings. Rock salt occurs in deposits in the soil; these are considered to have been formed by the evaporation of salt water, and are found in strata of different periods. It is obtained in Cheshire, a few other counties in the Midlands and the North, in the Isle of Man and in Northern Ireland. The deposits at Stassfurt in Saxony are valued largely for their associated salts of potassium and magnesium. Rock salt has s.g. 2.1–2.6 and is easily split. It has a limited use among stablemen, who lay pieces of it where horses can lick them. Commercially it forms the raw material for the manufacture of salt for trade and domestic purposes.

Rosemary.—*Rosmarinus officinalis*, Linn. (N.O. *Lamiaceae*), is an evergreen shrub, a native of the dry, rocky hills of the Mediterranean regions, from Spain to Asia Minor, preferring the neighbourhood of the sea, whence it probably derived its name, *rosa marina*, which was used as early as the thirteenth century. The plant was used medicinally in the time of Pliny, and was an object of trade as an aromatic in the thirteenth century. It was evidently much esteemed in the Middle Ages, for it was one of the plants which Charlemagne ordered to be grown on the Imperial farms. In this country it is only half hardy, being injured by frosts in winter, and does not succeed well in Germany. (There is a proverb that it only flourishes where the mistress is master!) Many curious customs and legends are connected with its use. Sprigs of it were worn at weddings, as well as at funerals. Herrick, the poet, says: "Grow for two ends, it matters not at all; Be 't for my bridal or my burial," and Shakespeare in "Hamlet" says, "There's rosemary for you; that's for remembrance," alluding to the fidelity of lovers. At one time it was called *Rosmarinus coronarius* on account of its being used for garlands with which the principal guests at feasts were decked. At Christmas the boar's head or roast beef was brought to table decked with rosemary and bay. Herbalists use it for the relief of headache and mixed with borax for a hairwash. The dose of the oil is one to three drops, and of the B.P. spirit of rosemary five to twenty drops. In Spain rosemary grows mixed with *Lavandula spica* and *Salvia lavandulæfolia*, which modify the odour so that the oil can only be used for cheap perfumery. The name of rosemary is also applied to other plants. The name marsh rosemary is applied to *Andromeda polifolia*, Linn. (N.O. *Ericaceae*). The name wild rosemary is also given to it, as well as to an American plant, *Ledum palustre*, Linn. (N.O. *Ericaceae*), which is used in homeopathy to relieve pain from the bites of insects. Sea rosemary is *Suaeda frutescens*, Forsk. (N.O. *Chenopodiaceae*). *Statice caroliniana*, Walt. (N.O. *Plumbaginaceae*), an American plant, is known in the United States as marsh rosemary, and is used as an astringent. This must not be confused with the English marsh rosemary (*Andromeda polifolia*, Linn.).

Rosemary Oil.—Rosemary oil distilled from *Rosmarinus officinalis* has always been of importance in perfumery, being a regular constituent of eau de Cologne and eau de la Reine de Hongrie. The best-quality oil comes from France and, after France, the Dalmatian Islands, whose production varies from 15,000 to 40,000 lb. per year. Spanish rosemary oil is a commercial article of considerable importance, though its odour is much inferior

to that of the French oil, due largely to the fact that spike lavender and sage grow more or less mixed with the rosemary. The reputation of Spanish rosemary oil has suffered from the practice of distilling a mixture of sage and rosemary and putting this on the market as rosemary oil "courant," or "commercial." In spite of these disadvantages, however, the oil has gradually improved its position, until now it practically holds the field. The Spanish Pharmacopœia actually directs that the oil should be levorotatory. For good oils the specific gravity runs from 0.897 to 0.915, and the optical rotation from -5° to $+5^{\circ}$. The following table represents good average rosemary oil:—

—	Specific gravity at 15°	Opt. rotn.	Refr. index, 25°	Esters, per cent.	Total alcohols, per cent.	Sol. in alcohol
Spanish oil	0.897 to 0.915	-6° to $+6^{\circ}$	1.4660 to 1.4700	1 to 6	9.8 to 18.8	1 in 6 to 1 in 14 of 80 per cent.
French oil	0.900 to 0.920	-4° to $+13^{\circ}$	1.4660 to 1.4730	1 to 5 per cent.	8 to 18 per cent.	1 to 10 of 80 per cent.

Dalmatian oil of rosemary has the following characters:—Specific gravity, 0.894 to 0.913; optical rotation, $-1^{\circ} 30'$ to $+8^{\circ}$; refractive index, 1.4655 to 1.4695; esters, 1.5 to 8 per cent.; borneol, 8 to 17 per cent.; soluble in 1 to 10 volumes of 80 per cent. alcohol. The so-called Spanish "courant" or "commercial" oils are admittedly the results of the distillation of mixed plants containing much sage oil. Such oils are used for cheap perfumery, and have the following characters:—Specific gravity, 0.915 to 0.936; optical rotation, $+10^{\circ}$ to $+25^{\circ}$; refractive index, 1.4680 to 1.4720; esters, 10 to 17 per cent. The optical rotation of Spanish rosemary oil, even when pure, varies considerably according to the locality where the plants are grown. Also, if much stalk be present in the distillation material, the oil will be less soluble and contain less borneol. Fractions of camphor oil are used as an adulterant of Spanish rosemary oil. It was once believed that any rosemary oil which was levorotatory or which yielded a first 10 per cent. fraction on distillation which was levorotatory, was adulterated with levorotatory turpentine. But about 1906 Parry and Bennett showed this assumption to be wholly incorrect. A very small quantity of the volatile oil is produced in this country, as indicated by the wholesale price of 9s. per oz., compared with the ol. rosmarini, Gall., P.B., extra, at 10s. per lb. distilled from the plants in bloom. Two other qualities appear in the drug lists ol. rosmarini Gall., P.B., super, at 6s. 6d. per lb.; ol. rosmarini, impure, at 3s. 9d. per lb. (probably Spanish). French manufacturers offer an oil at a superior price "drawn from the flowers," which should be called flowering tops, as the separation of the flowers is not practicable. It flowers in early spring. The flowers are remarkable for the fact that two of the four stamens are reduced to a small hook, so that only two are visible in the open flower. There are two varieties of glands, large and small, in the shoots, which probably do not yield one and the same oil. Whether this is the reason for the superior quality of the oil obtained from the flowering spikes is not clear. Rosemary occupied a prominent place in monastic gardens, as it was held in high estimation as a comforter of the brain and a strengthener of the memory. It was also employed as a tea for headaches and nervous disorders.

Rosewood Oil (rhodium oil).—The genuine oil is not now a commercial article. It is probably the oil from the wood of *Convolvulus scoparius* or *C. floridus*, shrubs which grow in the Canary Islands. The rosewood oil of commerce to-day appears to be a mixture of cedarwood, sandalwood, palmarosa, and geranium oils, with sometimes a very small amount of otto of rose added. A sample of rosewood oil has been examined by J. H. Gladstone ("Jour. Chem. Soc.," 1864, 17, 1), but there is some doubt as to the genuineness of the sample. He found it to be a thick yellow oil having s.g. 0.906, and opt. rot. about $=6^{\circ}$. He concluded that it

The C.&D. Commercial Compendium

contained about 80 per cent. of terpenes. An oil examined by Schimmel obtained from Teneriffe in 1889, and resembling the oil from the wood of *C. scoparius*, had the following characters:—S.g. 0.951; opt. rot. $+1^{\circ}30'$; acid value 0; ester value 0; ester value after acetylation 151.3.

Rosis metal.—Rosis metal is an alloy of two parts of bismuth, one of lead, and one of tin. Its characteristic is a low-fusing point, melting at $93-94^{\circ}$ C. The addition of a little cadmium renders it even more readily fusible. This alloy and similar compositions are used where a safety fuse is required.

Rosolic Acid.—The aurines or rosolic acids are carbinol derivatives of triphenyl methane, corresponding with the rosanilines. The free carbinols are not known. The anhydrides are yellow in colour, and their alkali salts are soluble in water with a red colour. They are dyes, but are not completely fixed on the fibre, and are chiefly used in the form of lakes in the paper industry. Aurine or para-rosolic acid and sodium salt is known as yellow corallin. The commercial product is a mixture of aurine ($C_{20}H_{14}O_4$) oxyaurine ($C_{20}H_{14}O_6$), methyl-aurine ($C_{20}H_{16}O_3$), and pseudorosolic acid ($C_{20}H_{16}O_4$). It is prepared by various methods, but principally by the interaction of phenol and oxalic acid in the presence of concentrated sulphuric acid. It forms yellowish brown lumps with a greenish fracture.

Rotation, Optical.—See Polarimetry.

Rothamsted Experimental Station.—This was founded by Sir (then Mr.) John Bennet Lawes, who commenced his experiments with different manuring substances, first with plants in pots, and afterwards in the field, about 1834. The researches of De Saussure on vegetation were the chief subjects of his study. Of all the experiments so made, those in which neutral phosphate of lime, in bones, bone-ash, and apatite, was rendered soluble by sulphuric acid, and the mixture applied for root crops, gave the most striking results. The results obtained at Harpenden on a small scale in 1837-39 were such as to lead to more extensive trials subsequently. The success which attended these experiments led Sir John to take out a patent in 1842 for the manufacture of superphosphate, and thus was formed the beginning of the artificial manure industry which has revolutionised British agriculture. In 1843 Sir John obtained the services of Sir (then Dr.) J. Henry Gilbert, and their collaboration continued until the death of the former in 1900. Gilbert survived Lawes by a little more than a year. In 1889 a trust deed was executed, and in accordance with its provisions a committee of management soon entered upon its duties, but early in the twentieth century it was necessary to consider the future work of the station. Despite the munificent endowment of Sir John Lawes, the income was only sufficient to carry on the old experimental plots, so an appeal was made for public subscriptions, the response to which enabled the building of a new wing to the bacteriological laboratory, the acquisition of land and other improvements.

Rottenstone.—A siliceous stone used, in powder or as an ingredient in pastes, for polishing metals. The name was apparently given on account of an unpleasant odour arising on rubbing or scraping the substance. Rottenstone is found in Derbyshire and South Wales. (See Tripoli.)

Rouge.—(1) A red cosmetic used either as a powder or as a solid formed by compression. The earliest type consists of carthamin, obtained from an acid infusion of safflower (*Carthamus tinctorius*). The safflower, after infusion, is steeped in a dilute solution of sodium carbonate; this solution, on being acidified with acetic or tartaric acid, yields a precipitate of carthamin. Other processes of extraction have been devised. Carmine is another old-fashioned basis used. For a preparation of solid rouge starch or some other inert white powder is added, and compression is applied. The recent increase in the number of aniline dyes produced commercially has led to the use of one of these—e.g., phloxine or geranium

lake—as a basis. (2) A red oxide of iron used for polishing gold and other precious metals. Commercially the residue obtained in the manufacture of fuming sulphuric acid, known as colcothar, is used. This consists of a mixture of a red and smooth portion, which constitutes rouge, and a bluish and coarser portion, which has other uses under the name crocus.

Rouge et Noir Beans.—Under this name handsome seeds are occasionally brought to this country from the neighbourhood of the Zambesi Falls as a curiosity. They are used for making scarf pins and other decorative purposes. A few years ago some of these "beans" were imported into the London market from Delagoa Bay and Lourenço Marques for sale for decorative purposes. The beans are the seeds of *Afzelia euanzensis*, a leguminous tree first found near the Euanza River in Angola. The pods of the bean contain five or six seeds. These are about the size of a scarlet runner bean, and are quite black, with more than one-third of their length covered with a bright orange red arillus, which gives them a very ornamental appearance. The only interest at present to pharmacists concerning them is that they should be in a position, if possible, to give information about them to customers who have visited South Africa, when they bring curious botanical specimens home. It is not known at present, apparently, whether these seeds possess poisonous or therapeutical properties, but doubtless so striking an object will not long escape the numerous research laboratories that are now springing up in every country. There is, however, another very pretty black and red seed that is commonly used for necklaces and ornamental purposes, but which does possess poisonous as well as active medicinal properties. These are commonly known in the West Indies as crab's eyes, and also as prayer beads, and are the seeds of *Abrus precatorius* (N.O. Leguminosae). They are about the size of a sweet pea seed, but oval, hard, polished and black, with the testa and seed coat of a bright red at one end. In this country they have been sold and used in medicine under the name of jequirity seed, and the root is known as Indian liquorice. Another brilliant black and red seed known in the West Indian bead and necklace trade is obtained from *Ormosia coccinea* and *Adesocarpa*. The seeds of *Percecea* are sometimes sent to international exhibitions from British Guiana and Brazil. They are roundish, beautifully polished, of a bright scarlet colour with a black spot at one end, and are mounted in silver for studs and buttons, or made into necklaces and bracelets. The name of *ormosia* is derived from the Greek word *ormos*, meaning a necklace. These seeds have not apparently undergone chemical analysis as to their constituents or medicinal or other properties. (For an account of the seeds of *Afzelia euanzensis* see C. & D., 1923, II, 313.)

Rough Copper.—A generic term applied to unrefined copper assaying 94 to 98 per cent. copper.

Roundels.—Roundels are the thick circular "bullseyes" of glass, sometimes called bullions, which are often introduced here and there in the leaded or copper glazed section above the transome rail in the chemist's shop-front to add a touch of relief to an otherwise plain window surround. Particularly suitable for use in old-style shop-fronts, these roundels, which are now nothing more than a form of decoration, are relics of the days when windows were taxed, for they were then employed as a means of evading the tax, each window in which a bullion appeared being regarded as defective and thus not taxable.

Royal Army Medical Corps.—A department of the British Army which attends to soldiers who are ill or wounded and is entrusted with the preservation of the health of the Army. Candidates for commissions are not required to pass a general examination, their training in medicine and surgery being regarded as sufficient. On receiving their commission, lieutenants pass through courses of instruction before their commissions are confirmed. Further training and examination follow. The Royal Army Medical Corps is under the supervision of the Director-General of Army Medical Services.

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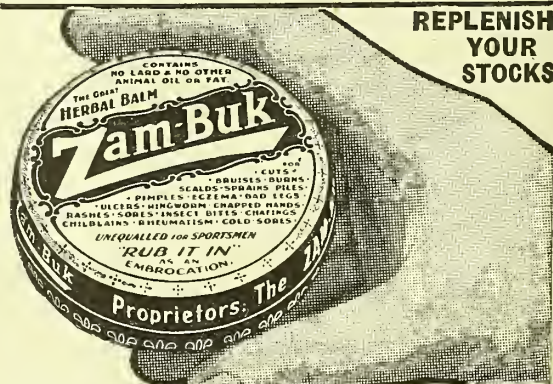
ANESTILE.—NARCOTILE.—HEMOSTYL.

LIPIODOL.—MUTHANOL.—ARHEMAPECTYL.

ENTERO ANTIGENS.—STAPHYLOTHANOL.

NEOPANCARPINE. RICARD'S CACHETS.

BENGUE & CO., LTD., MFG. CHEMISTS,
24 FITZROY STREET, LONDON, W.1.



REPLENISH
YOUR
STOCKS

Two more London Chemists testify to remarkable increasing demand for 'ASPRO'



SALES DOUBLED with Current Window Display

T. M. BLACK, DISPENSING CHEMIST,
160 Franciscan Road., Tooting, S.W.17

To 'ASPRO' Limited, Trading Estate, SLOUGH, Bucks.

Dear Sirs,—Just a line to let you know how pleased I am with the 'ASPRO' window show you sent me. The result since putting it in has been very marked—my sales have been more than doubled and the increase has been most marked in the 25's size.

There is no doubt in my mind that the policy of the chemist is to devote his window display to lines which are heavily advertised as yours is. It keeps a constant stream of purchasers coming into the shop which can be turned to good account for other lines stocked by us chemists.

Wishing you every success,

Yours faithfully,

THOMAS M. BLACK.

BONUS ON 10's.

One Gross Order - Bonus 1 dozen packets.
Half Gross Order - Bonus $\frac{1}{2}$ dozen packets.
Half gross 10's is minimum order accepted for Bonus purposes.

NO BONUS ON 5's OR 60's.

CONDITIONS.—The conditions are, that upon receipt of each bonus the chemist undertakes to show 'ASPRO' Display matter in his shop window for 14 days, and to sell at advertised prices. Acceptance of bonus is considered as acceptance of these conditions. To qualify for the bonus it is not necessary for the chemist to buy both sizes at the same time but single lots may be ordered, viz., 6 doz. 10's or 3 doz. 25's.

SOLD IN 3d., 6d., 1/3 and 2/6 sizes with corresponding Wholesale prices of 2/3, 4/6, 11/6 and 21/- per dozen subject to 2½% discount 30 days.

ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science and its claims are based on its superiority.



Agents: **GOLLIN & Co. Pty. Ltd. ('ASPRO' Dept.), Slough, Bucks.**

No proprietary right is claimed in the method of manufacture or the formula.

'Phone: SLOUGH 608

MARBLE ARCH PHARMACY

Proprietors: HYGIENIC STORES, LTD.

ENGLISH & FOREIGN CHEMISTS,
24 EDGWARE ROAD, W.2

Telephone: PADDINGTON 7699.

27th April, 1929.

Dear Sirs,—Permit me to take this opportunity of telling you how satisfied I am with 'ASPRO' sales. I recommend it extensively to all my customers, as indeed do all my four assistants and we have yet to find a dissatisfied customer, or a case in which the desired relief from pain has not been obtained.

Our close proximity to Hyde Park has brought us experience that has taught us that 'ASPRO' is very well recommended for headaches caused by sun-glare, and for the normal day-trippers headache. In fact we confidently recommend 'ASPRO' in all those cases where the use of aspirin is indicated, and particularly in those cases where ordinary aspirin is not well tolerated.

Faithfully yours,

THE MARBLE ARCH PHARMACY.

'Aspro' Bonus System for Chemists gives Extra 17% Profit

Send for special window display and buy 'ASPRO' on exclusive bonus terms for chemists. Order through your Wholesaler. The bonus works out as follows:—

BONUS ON 25's.

One Gross Order - Bonus 2 dozen packets.
Half Gross Order - Bonus 1 dozen packets.
Quarter Gross Order Bonus $\frac{1}{2}$ dozen packets.
Quarter gross is minimum quantity.

The ANGLO-FRENCH DRUG CO. Ltd.

We have recently introduced to the Medical Profession

ACETYLCHOLINE

A New and Powerful Vasodilator.

Indicated in Arterial Spasms. Raynaud's Disease. Endarteritis Obliterans.
Trophic Disturbances.

This product is marketed under the name of

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and is supplied in boxes of 6 ampoules in doses of 2, 5, 10 and 20 ctgs.

Concise List of Products and new Price List on request.

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Telephone: MUSEUM 4029.

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Continues to be prepared with scrupulous care, in the greatest chemical purity by
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And is sold in Bottles, authenticated by a stamp bearing their name. Trade Mark, "Henry's Calcined Magnesia"
New York: Messrs. SCHIEFFELIN & CO., William Street. PRICE 2s 9d. Paris: Messrs. ROBERTS & CO., 5, Rue de la Paix.

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(Dr. Hill's Formula)
MEDICINAL SNUFF. ABSOLUTELY THE
FINEST REMEDY FOR CATARRH & COLD
IN THE HEAD.

Richard Dickeson & Co. (Incorporated with Reynolds, Sons & Co., Ltd.)
57-59 CHARTERHOUSE STREET, LONDON, E.C.1.



'Petrolagar'

(Regd. Trade Mark)

The new style bottle for 'Petrolagar' Brand Emulsion contains precisely the same quantity as the former and affords more convenience to your customers. Order stocks from your wholesaler to-day to meet increased demand.

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A new preparation which is producing splendid results
in Whooping Cough is

ELIXIR OF EPHEDRINE

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Prompt relief in the spasmodic coughing and vomiting is
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Packed in 4 oz. bottles retailing at 3/-

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is fully recognised by qualified judges, and it is certified
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:: :: **ABSOLUTELY SAFE FOR** :: ::
INTERNAL AND EXTERNAL USE.

It has been sold all over the world, and is being used
to-day "back of beyond" as well as in the homes of our
own country. Its sale is steadily increasing, old
customers are retained, while new ones are being added.
One or two displayed bottles will quickly establish
business which will prove profitable and regular. Any
assistance we can give in the provision of advertising
material is yours for the asking. The "Yadil" lines cover

"YADIL" ANTISEPTIC (LIQUID AND PILLS), "YADIL"
OINTMENT, "YADIL" PASTILLES and "YADIL" SOAP.

YADIL PRODUCTS (1925) LIMITED,
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·Iglodine·

THE SAFE AND PURE ANTISEPTIC,

And its Kindred Preparations, are Dependable,
Quick-selling and Profitable to the Chemist.

THEY SATISFY BUYERS AND BRING REPEAT ORDERS!

IGLODINE, the Ideal Home Healer, is Highly Recommended
by the Medical Faculty, and Retailers at 10½d., 1/6 and 3/- per
Bottle. **IGLODINE** Specialities include—**EMBROCATION,**
TOILET SOAP, OINTMENT, CREAM, THROAT TABLETS,
SUPPOSITORIES, SHAVING STICK, PASTILLES, NASAL
DOUCHE, SALICYLATED: Also **FIRST-AID OUTFITS.**

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THE IGLODINE Co., Ltd., NEWCASTLE-ON-TYNE.

"ZIP" Brand Products

are manufactured by

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*If you are interested in any of the following lines we suggest
it will be greatly to your advantage to get our samples and
prices before placing your season's contracts.*

L.L.C. Lozenges—hand-cut **After-Lunch Mints**—hand-cut
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Any of the above packed in 2lb.
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*We are the sole proprietors and manufacturers of the
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"ZIPS" (REGD) PASTILLES

Packed in 3d. pocket tubes and 4 or 7lb. white
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Special Terms—Showcards and samples
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*Our increased advertising campaign will
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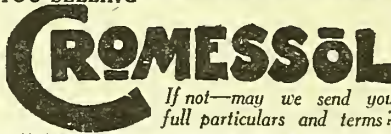
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—are lines of merit and include Budnip Powders, Budnip Cough Cure, Budnip Throat and Chest Pastilles, etc. They have a 20 years' reputation—show good profits and are repeat business bringers. *Send us a p.c. for special terms.*

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Beecham and Veno Proprietaries yield fair profits, and are the best paying propositions to handle.

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Beecham and Veno Proprietaries are now regarded as the best selling proprietaries in the Drug Trade.

Beecham and Veno Proprietaries are worth a display in your establishments, as their steady and increasing sale will amply repay any selling co-operation extended to them.

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Clarke's Blood Mixture	3/- & 12/-	£1:7:0 & £5:8:0
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Orders: Minimum quantity £16:4:0 value.
FREE CASES. Carriage paid upon orders of £100.

All Wholesale Houses keep a large stock of our Preparations and can supply smaller orders promptly.

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An attractive Showcard and Dummies supplied on application.

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ORDER SMALL STOCKS FOR AUTUMN TRADE

—YOUR WHOLESALE WILL SUPPLY
YOU AS REQUIRED



The demand for Icefoam continues right through the Summer and into Autumn, and by keeping small stocks in hand you can earn a good profit for some time to come. Order a dozen or two as required from your wholesaler.

All wholesalers will be supplied by *return train* with what they require to meet the needs of their customers—and the usual rates will be charged.

Icefoam
THE FIRST FOR THIRST

F.W. HAMPSHIRE & CO (1927) LTD. DERBY.

YOUR PROBLEM!

AN ADEQUATE REPLY
TO THE INTENSE
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THE UBIQUITOUS 6d.
TOILET LINE AWAITED
OUR SOLUTION

PLEASE ASK OUR
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THE RESULT

"NEWBERYS"
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CHARTERHOUSE SQUARE,
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**POWERFUL AND
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T HIS powerful disinfectant, which is distributed through a fine spray into every nook and cranny, is now being packed in 1/6, 6/- and 11/- bottles.

This attractive new line is sold for use in the general disinfecting of the atmosphere, rugs, curtains, etc., and is especially valuable for sick rooms, parties, ball-rooms, cinemas, factories, workshops and offices of all kinds.

SHOWCARDS SUPPLIED WITH EACH ORDER.

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SELLS FREELY AND READILY.

PAYS 50% ON OUTLAY.

An infallible remedy for

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P.A.T.A. doz.
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4 oz. tins 1/-, 8/-
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Bottles 2/-, 16/-

Attractive advertising
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SOLD EVERYWHERE.

Manufactured by

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Teasdale's Chlorodyne

Shows the best profit to the Chemist
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NO Signature Required. Sold by CHEMISTS ONLY.

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PHOSPHATE OF SODA, Pure

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Protective Mark
Patented in U.S. and
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Ergopiol
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Capsule cut in half thru the seam, showing initials.



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[Ergopiol (Smith) is to be had only in packages of twenty capsules each—never supplied in bulk or other form.]

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Ucal Health Salt

In spite of heavy competition from advertised brands, sales continue to show large increase.

Proof that Quality Pays

A good Saline, PROFITABLE, and packed in airtight tins & handsome 1-doz. Display Outers



8 $\frac{1}{2}$ d. size 5/6 doz.

1 gross 60/- 2 gross 54/-

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3 doz. 9/6 doz.

Specify on your Order—free supply 2-colour handbills

Plentiful Show Material.

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Compound Syrup of HypophosphitesTRADE **"FELLOWS"** MARK

Compound Syrup of Hypophosphites "FELLOWS," in addition to being in constant and increasing demand, adds distinction to a chemist's show window. It is a symbol of progressiveness and reliability.

Tablets Laxative "FELLOWS"*"The Tablet With a Pedigree"*

IN TWO SIZES, NAMELY:

LARGE BOTTLES
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A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

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Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

"YEAST FOR VITAMIN B."

Yeast specially prepared for medicinal purposes.

GUARANTEED ABSOLUTELY PURE,
MIDGLEY & PARKINSON, LTD.,
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VETERINARY COUNTER PRACTICE. Price 7s. 6d. net,
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ESTABLISHED 1793.

The Best and
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ATKINSON & BARKER'S
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Does not
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THE BLOOD AND NERVE FOOD

SOLD BY CHEMISTS ONLY
IS NOW
EXTENSIVELY ADVERTISED TO THE PUBLIC.

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Powder form ... in tins ... 2/- and 3/9

Tablet form ... in bottles ... 3/6 and 6/6

PROFIT to chemists 25% on selling
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*Initial supplies may be obtained from
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PLASMON, LTD.

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A VALUABLE TONIC FOOD FOR NERVES & BRAIN



In TABLET form "NEW-PROMONTA" is packed in flat boxes each containing 54 tablets. An aluminium tube, which holds a day's supply and can be carried easily in the pocket, is included in every box—a feature of great convenience to travellers and those professionally engaged.

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A N ORGANIC FOOD preparation, containing the *Lipoids* of the substance of the central nervous system and the *Vitamins*, A, B, D and E, combined with Lime, Iron, soluble Lacto-Albumines, Hæmoglobin and Carbo-Hydrates.

A perfectly pure natural Tonic food prepared scientifically under the supervision of experts. An unequalled Reconstituent for both Children and Adults in all cases of weakness or the after-effects of illness.

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"NEW-PROMONTA" is prescribed and recommended by the Medical Profession.

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Digestive Wine.

Known throughout the World,
and prescribed in all cases of
ANÆMIA, DEBILITY, and
CONVALESCENCE, to Young
Women, Children and the Aged.

DOSE: One wine-glass after the
two principal meals.

Recommended by—
PROF. BOUCHARDAT, Professor of
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"For more than thirty years St. Raphaël Wine has been
exclusively prescribed, with success, in the Paris hospitals
as a pure tonic, by eminent physicians, such as Magendie
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"The 'Vin de St. Raphaël' is often used for ladies
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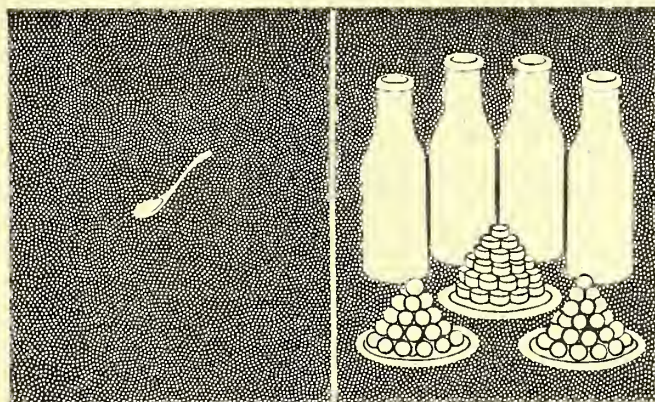
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A Teaspoonful
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contains more Vitamins
than all the Butter and Milk
any Individual can eat
and drink in a Day

And what an easy way to absorb ultra-violet rays, without which health is impossible! No disagreeable taste, no unpleasant after-effects.

"The objection to the flavour of Cod Liver Oil is largely a mental one", writes Professor L. C. Norris of Cornell University, "arising perhaps from the fact that no common food product has a similar flavour. Cod Liver Oil is just as digestible as butter. Statements which are sometimes made that Cod Liver Oil causes indigestion, or that it is too strong for the person taking it, are untenable". ("Drug Markets", August 1928).



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National Committee for Promoting the Consumption of
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Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
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WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES
BEESWAX WHITE, YELLOW AND RESIDUE
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YELLOW, GREEN, RED FOR BRILLIANTINE. etc.

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ALL SPECIFIC GRAVITIES.

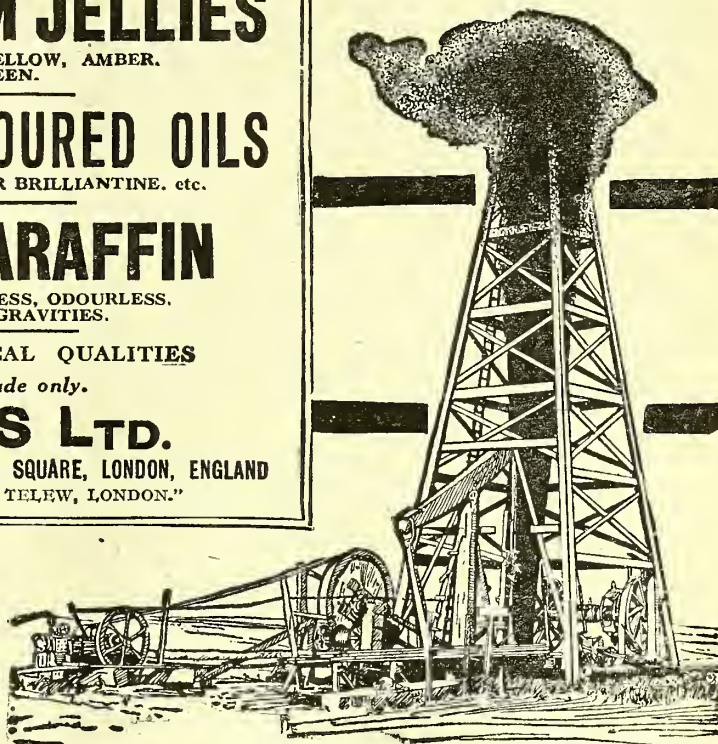
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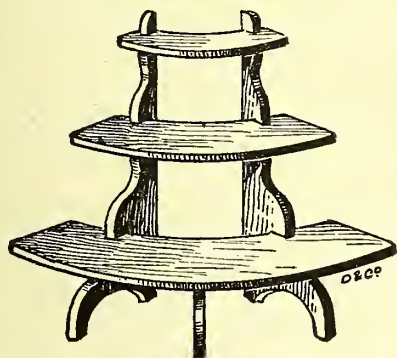
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ROYAL LONDON HOUSE, FINSBURY SQUARE, LONDON, ENGLAND

Telegrams: "CENTUMVIR, TELEX, LONDON."



A Useful Display Stand for the Chemist—



No. CDF 1974.

Solid Oak Plywood Display Stand. 3-tier.
19½ ins. high, 20½ ins. wide, back to front 20 ins.

10/6
Each

This Stand is supplied flat and boxed. To erect same fit all the shelves into one side section first and then drop the other side section on from the back.

Send for our full list No. C.D. 1115.

DUDLEY & COMPANY LTD.

451 HOLLOWAY ROAD, LONDON, N.7.

City Showrooms - - 65/66 FIVE STREET, E.C.

PETROLEUM JELLY

("SALVO PETROLIA")
BRAND

THE PERFECTION OF PETROLEUM JELLY.
MANUFACTURED SOLELY BY

THE DEE OIL CO. LD.

D 23 & 24 EXCHANGE BUILDINGS
LIVERPOOL

TELEPHONE: CENTRAL 3859 TELEGRAMS: "CESTRIAN"

LONDON OFFICE
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PACKED IN BARRELS, KEGS OR
SMALLER PACKAGES IF DESIRED.

OTHER GRADES OF
PETROLEUM JELLIES, WHITE BASES ETC.
WHITE OILS B.P. & Technical Qualities
SAMPLES & PRICES ON APPLICATION

OLEUM DEELINE (DEE OIL)
THE UNFAILING CURE FOR ECZEMA



FAIRY DYES

IN
30 SHADES

Have you got A FAIRY DYES' WINDOW CURTAIN?

Already throughout the country retail shops are displaying these window curtains to their great advantage. Not merely does it help them to sell Fairy Dyes and so add to their profit, it also forms a definite magnet of attraction and makes the passer-by stop and look in the window.

This is as it should be as Fairy Dyes want to help all round and while incidentally selling

more Fairy Dyes they want to see their customers prosper.

This is a helping hand—clasp it by sending to-day for a Fairy Dyes' window curtain.

It can be trimmed to fit your window and you will always be glad you took advantage of this offer. It comes to you free and post free, and is a gift you will really appreciate.

Fairy Dyes, LTD.
WELL ROAD, GLASGOW

London Depot: 292 UPPER STREET, ISLINGTON, N.1.

CHEMISTS' LABELS?

Have you ever thought and realised the number of customers you gain by using good quality printing?

SUTTLEY & SILVERLOCK, LTD.
92 BLACKFRIARS ROAD, LONDON, S.E.1

The Chemists' Printers, of over 100 years' experience, will have much pleasure in endeavouring to assist you by submitting suggestions and samples.

Why not drop us a postcard and we will advise our Representative to call upon you when next in your district? He will be only too pleased to give you his advice and particulars of anything you may need in the way of printing.

Have you seen our new Senna Pod Carton? You can pack this selling line yourselves and increase your profits.

Samples
on request

PHONE - - HOP 3474 (4 lines)

PARAFFINUM LIQUIDUM B.P.

All Specific Gravities Guaranteed
to remain bright at 0°C

B.P. WHITE & YELLOW
PETROLEUM JELLIES

WHITE & HALF
WHITE OILS

W.B.DICK

& CO., LTD.

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LONDON, S.W.1

Telephone :
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And at
GLASGOW - LIVERPOOL
NEWCASTLE - CARDIFF

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BY APPOINTMENT
TO HIS MAJESTY
THE KING.

Mead

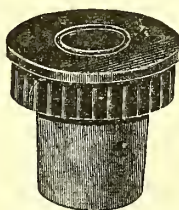
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On and after Monday, Sept. 2nd,
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PORTABLE TYPEWRITER
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or £1 with order and 12 payments of £1

37 Oxford St., London, W.1, 9 Martineau St.,
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200 Varieties
Any Colour.

A suitable Composition Stopper will
enhance the selling
value of your
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quote you.



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Diamine House, Middle Lane, Hornsey, LONDON, N.8

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Ask for
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OUR SPECIALITIES :
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TECHNICAL WHITE & HALF-WHITE OILS
COLOURED BRILLANTINE OILS

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We Make Them All

HERE IN PENWORTHAM MILLS, in the heart of England's Cotton County, every process in the manufacture of Surgical Dressings is carried out.

★

BALES OF COTTON from the Cotton Countries of the World arrive just as they left the cotton fields to pass through every process that transforms the grey masses of raw cotton mingled with leaf and seed and soil, into white and fleecy rolls of downy absorbent wool.

★

YARNS are wound, bobbins are warped, beams are sized, and cloth is woven on our extensive plant for lint, and gauze, and bandage.

★

CLOTH is bleached, lint is raised; gauze is rolled and bandages cut. And in the finishing departments all kinds of dressings are medicated, sterilized, and carefully packed in a thousand forms for the markets of the world.

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WHOLESALE and EXPORT ONLY.

Vernon & Co. Ltd

Manufacturers, Bleachers and Medicators of Surgical Dressings
PENWORTHAM MILLS
PRESTON, LANCs

Best sellers
The public is asking for **ZEAL** CLINICAL THERMOMETERS because they are:-
GUARANTEED TO STAY ACCURATE
CONSISTENTLY ADVERTISED

Made by
ZEAL
-the name the public knows.

G. H. ZEAL, LTD.,
75 & 77, St. John St., London, E.C.1.

“Surco”
RELIABLE

ELASTIC HOSIERY
BODY BELTS
TRUSSES
SUNDRIES

WRITE FOR CATALOGUE

Surgical Hosiery Co., Ltd.
RUSSELL STREET
NOTTINGHAM

The Surgeon's Choice!

Every Surgeon knows that Mead's Plaster is—

The Original.

Instantly and Firmly Adhesive.

No Heating or Moistening.

Perfectly Pliable but Strong.

Non-Irritating.

Free from Dammar Resin.

Least Affected by Changes of Climate.

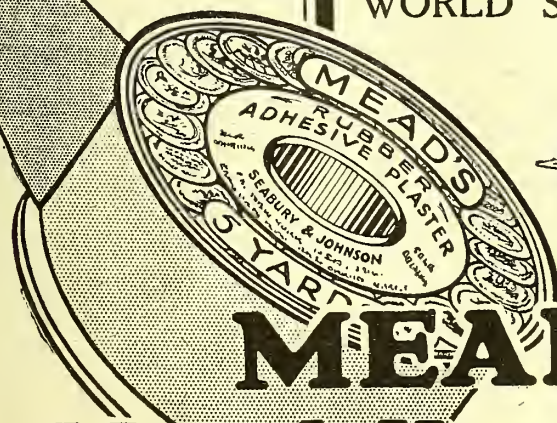
By reason of these qualities Mead's Plaster answers perfectly in every case requiring the use of strapping plaster and is preferred by surgeons and hospitals, by military, naval, police and other authorities. To sell Mead's is to sell the Plaster that has set A WORLD STANDARD of reliability.

Supplied in every convenient width on spools of 10, 5 and 2½ yards. Also 7 and 12 inches wide, Plain or Porous, in 1 and 5 yard rolls, etc.,

Also
MEAD'S
"MULTIWIDTH"
Rubber Adhesive
Plaster

and
SEABURY'S
"MULTIWIDTH"
Oxide of Zinc
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On single spools containing
4 WIDTHS:
¼ in., ½ in., ¾ in.,
and 1½ in.



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86 Clerkenwell Road, LONDON, E.C.1
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MEAD'S Rubber Adhesive Plaster



Established
1847

Allecock's

POROUS PLASTERS

On
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THE SAFE AND CERTAIN REMEDY.

**FOR COUGHS AND COLDS, RHEUMATISM,
LUMBAGO, LOCAL PAINS AND STIFFNESS.**

GENEROUS PROFIT :: FREE SHOWCARDS

ALLCOCK MANUFACTURING CO., BIRKENHEAD.

SIMPLIC (Patent) SOOTHERS

THE BEST MADE SOOTHER ON THE MARKET.

Each Soother
packed in Dust-
proof Carton

No stale stock
from exposure
or handling.

2 dozen Soothers
in Artistic
Container,
as illustrated.

Made in two sizes.



Ask also for
SIMPLIC TEATS
Each in Carton.

Packed in
Display Outer
of 3 dozen
assorted Teats.

The Name
"SIMPLIC"
is a Guarantee
of Excellence.

SIMPLIC SPRINGLESS TRUSS

FOR BATHING AND EVERYDAY WEAR.

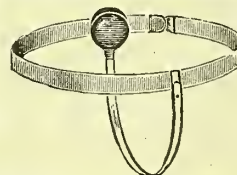
Made with Circular, Inguinal or Scrotal Pads.

INSTANTLY
ADJUSTED.

FITS EVERY
SIZE & SHAPE
PERFECTLY.

SUITABLE FOR
ALL CLIMATES.

The SIMPLIC TRUSS is specially designed for Bathing. It gives just the correct support for each case.



CAN BE WORN
AT ALL TIMES
UNDER ALL
CONDITIONS.

THE PERFECT
TRUSS.

ASK YOUR WHOLESALE FOR LATEST TERMS.

Manufactured by J. G. FRANKLIN & SONS, LTD., BIRKBECK RUBBER WORKS, LONDON, E.8.

Makers of Fine Rubber Products for over Sixty Years.

Always
keep a display
of

NORVIC

BLUE CARTON
CRÊPE BANDAGES

Cost	12/-	21/-	18/3	21/3	24/3
Sell	1/6	1/11	2/3	2/8	3/-

**You will
find it pays!**

Stocked by all the leading wholesalers.



KARL HÖLL A.-G.

Langenfeld, near Cologne, Germany

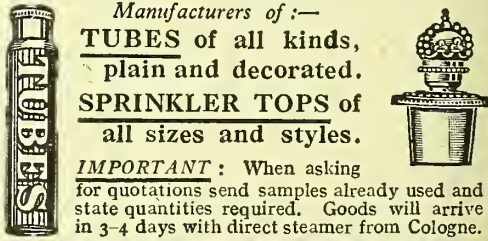
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Manufacturers of:—

TUBES of all kinds,
plain and decorated.

SPRINKLER TOPS of
all sizes and styles.

IMPORTANT: When asking
for quotations send samples already used and
state quantities required. Goods will arrive
in 3-4 days with direct steamer from Cologne.



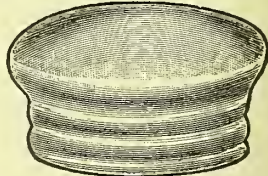
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Baker Metal Stopper Co. Ltd.

RELIANCE STOPPER WORKS
261 Icknield St., BIRMINGHAM.

Telegrams: "Screwcap, Birmingham."
Telephone: Northern 1562.



SCREW CAPS

in ALL Metals

Including Nickel Silver and
Gilt for Face Cream Pots,
and for frozen Cologne
containers.

ALUMINIUM BOXES

"CORNOL" BRAND CORN REMOVER



3/9 FREE 3/9

For a small display of "CORNOL" CORN REMOVER in your window for two weeks we will send you three bottles free of charge with an order for two dozen bottles. "CORNOL" CORN REMOVER is a most satisfactory preparation to sell. Every bottle is guaranteed, and buying on Display Terms as above you make 35% profit on selling price or 54% on cost.

THIS MEANS 5¼d. PROFIT ON EVERY BOTTLE

THOMPSON & CAPPER WHOLESALE LTD.
Manesty Buildings, College Lane, LIVERPOOL.

"Wimaco" Specialities, British and Best.

HOT WATER BOTTLES—Grey and Red. Finest quality heavyweight rubber

INSIST ON WIMACO MONARCH SEAL BRAND (Regd.). THERE IS NO SUBSTITUTE FOR WIMACO.
WINCHESTER MANUFACTURING CO., LTD., ISLEWORTH, MIDDLESEX

THE "SAFEGUARD"
BRAND OF RUBBER GOODS

Are SUPPLIED to CHEMISTS & DRUGGISTS ONLY
FINEST QUALITY. HYGIENIC PACKING

Write for Samples and Prices.

BURGE, WARREN & RIDGLEY, LTD.

91/92 GREAT SAFFRON HILL, E.C.1

Phone: Holborn 0050. Telegrams: Pessaries, Smith, London.

"DEPENDABLE"
TOBACCO
WHOLESALEERS."

MIXED PARCELS A SPECIALITY
Established Fifty Years.

Price Lists mailed on request.
A PROFITABLE SIDE LINE
FOR CHEMISTS.

SINGLETON & COLE, LTD., CANNON ST., BIRMINGHAM

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Established 1833.

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SURGICAL APPLIANCE MANUFACTURERS.

SPECIALITIES FOR SUMMER:

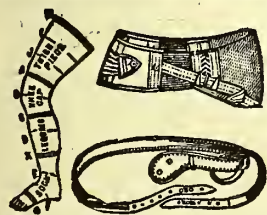
Elastic Hosiery, with or without seams, suitable for Summer wear.

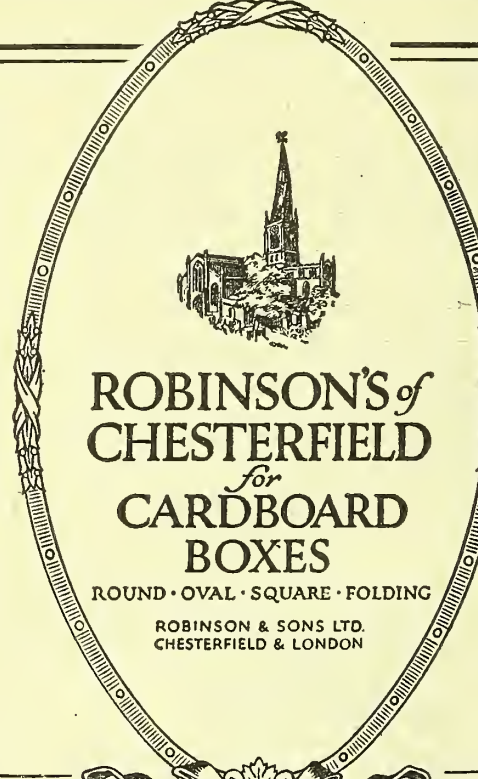
Trusses Spring and elastic, Suspensory Bandages, Abdominal Belts, made from porous materials.

Elastic and Leather Supports, for Cricket, Tennis, Golf and Boating.

Goods for Toilet and Seaside trade.

India Rubber Appliances, Nursing Requisites, Druggists' Sundries, Etc.





**ROBINSON'S of
CHESTERFIELD**
for
**CARDBOARD
BOXES**

ROUND • OVAL • SQUARE • FOLDING

ROBINSON & SONS LTD.
CHESTERFIELD & LONDON



BEADED BOXES

The boxes illustrated above are finding increasing favour amongst chemists. They are dust-proof and air-tight and of a very attractive appearance. Fitted with a flanged metal lid which is easily lifted out they form a very useful container. Blank panel on reverse side for printing in Customer's name and address.

ROBINSON & SONS, Ltd.
Manufacturers of ROUND, OVAL, SQUARE AND FOLDING
CARDBOARD BOXES.

CHESTERFIELD

WESTMINSTER
COLLEGE OF PHARMACY
190 Clapham Road, London, S.W.9

Founder: C. S. V. WILLS, Ph.C. Principal: P. H. WOODNOTH, Ph.C., F.C.S.

**NEW COURSES FOR PRELIMINARY
SCIENTIFIC and C. & D. EXAMINA-
TIONS COMMENCE on OCTOBER 9th**

Full details and prospectus may be obtained from The Secretary

MANY SUCCESSES IN THE EXAMINATIONS
Your Opportunity to

QUALIFY IN OPTICS

PRACTICAL WORK. Students taking the course may receive personal tuition in the practical work AT ANY TIME DURING THE COURSE.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.).

Write for full particulars—

G. A. SCURR, M.P.S., F.S.M.C., F.B.O.A., F.N.A.O., B.Sc., F.I.O., F.C.O.
50 HIGH STREET, BARNET, LONDON, N.
S.A. Representative: E. E. G. WOOLLEY, F.S.M.C., M.P.S., P.O. Box 1953, Darbau.
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LONDON COLLEGE of PHARMACY
(FOUNDED BY H. WOOTTON, B.Sc.)
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SEVEN WEEKS REVISION COURSES commenced Aug. 7th.

NEXT SESSION commences Oct. 9th.

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361 CLAPHAM ROAD - - LONDON, S.W.9.

**MERCHANT VENTURERS'
TECHNICAL COLLEGE**
BRISTOL.

Principal - - - ANDREW ROBERTSON, D.Sc.

THE SCHOOL OF PHARMACY
will be OPENED in OCTOBER 1929
with D. J. WILLIAMS, B.Sc., Ph.C., F.C.S. (late
Principal, The Bath & West of England College of
Pharmacy), as Head of the Department.

For further particulars apply to W. A. ANDREWS,
B.Sc., A.I.C., Superintendent, M.V.T.C., Bristol.

PHOSFERINE

New Window Display Conditions

Monthly Account.

Carriage Paid.

For a small Central Window Display of not less than 14 days and an order for £5 worth of Phosferine we allow a bonus of 10/6, on a £2 10 0 order 5/3.

This shows a net profit on the transaction to the Chemist of 35% besides attracting the passer-by to the window and considerably augmenting sales generally.

The above conditions apply only to the United Kingdom.

EXAMPLE.

		COST	SELLS FOR
3½ dozen 1/3 size at 12/- net	...	£2 2 0	£2 12 6
2 " 3/- " at 30/- "	...	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	...	10 6	
		£4 11 6	£6 4 6

Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.

Window Display Material Free and Carriage Paid.

WHOLESALE PRICES OF PHOSFERINE.

Carriage Paid.

Monthly Account.

1/3 size	...	12/- per doz. net.
3/- "	...	30/- " "
5/- "	...	48/6 " "
12/- "	...	114/- " "

PROTECTED PRICES.

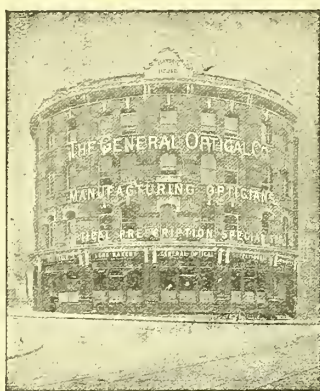
Phosferine and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-.

PHOSFERINE (ASHTON & PARSONS) Ltd., Ludgate Hill, LONDON, E.C.4.

Telephone No: CITY 8733.

Telegraphic Address: "PHOSFERINE, CENT, LONDON."

IMPORTANT.—Every care is used in corking and packing Phosferine, but occasionally a leaky bottle will pass undetected. Any leaky or faulty bottle should be returned to PHOSFERINE (Ashton & Parsons), Ltd., Ludgate Hill, London, E.C.4, when a fresh supply will be sent and postage refunded.



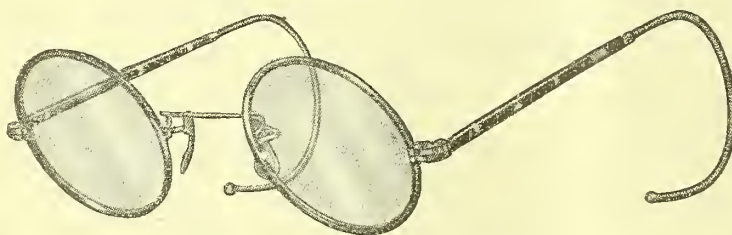
OUR BUSINESS IS EXCLUSIVELY CONFINED TO
OPTICAL SUPPLIES

AND

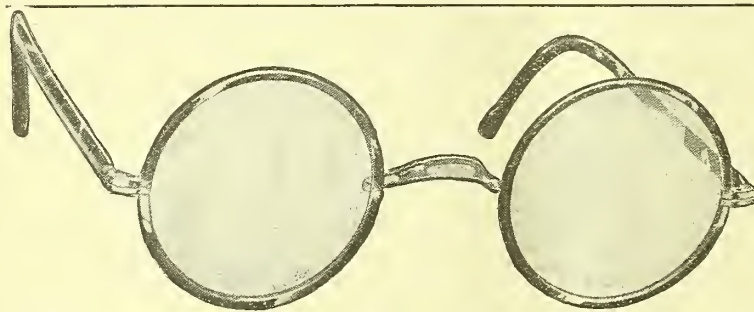
OPTICAL PRESCRIPTION WORK

HENCE WE MAKE THE STUDY of THE BEST
OPTICAL GOODS OUR CONSTANT CARE.

We illustrate two of our well-known and GUARANTEED
NEW MODELS of modern SPECTACLE FRAMES.



☞ The "COMPANION"
BEARING PAD, with its
Patented Sides, which can-
not hurt the wearer's ears.
Its comfortable nose pads
just rest on the nose and
obviate any pressure.



☞ The "MONARCH"
SPECTACLE.— Its sides
have cores of Gold Filled
Material and can be adjusted
snugly just behind the ears.

Our Frame and Prescription Catalogue illustrates these
and all other patterns of Spectaclewear and will gladly
be sent on receipt of your Trade card to

THE GENERAL OPTICAL COMPANY

(E. T. & F. W. CORNWELL)

TEL. Nos.
2962/2963
Clerkenwell

**120 CLERKENWELL ROAD
LONDON, E.C.1**

Telegrams :
GENOPTICO,
SMITH,
LONDON

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

AUGUST 24, 1929

This Supplement is inserted in every copy of The Chemist & Druggist.

THE CHEMIST AND DRUGGIST SUPPLEMENT

REVISED ADVERTISEMENT TARIFF.

Businesses Wanted and for Disposal, Premises to Let, Goods for Sale and Agencies—6/- for 50 words; every additional 10 words or less, 6d.

SITUATIONS OPEN—6/- for 40 words; every additional 10 words or less, 6d.

SITUATIONS WANTED—2/- for 18 words; every additional 10 words or less, 6d.

Legal Notices, Tenders, Auctions, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column).

Miscellaneous (Wholesalers') Section for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less.

EXCHANGE COLUMN (for Retailers, etc.)—Twopence per word, minimum 2/-.

BOX NUMBER.

In each case replies may be addressed to a registered number or nom-de-plume, c/o this Office, at a charge of 1/- extra for each advertisement.

PAYMENT.

All Advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C.4.

Telephone: Central 3617 (3 lines).

Telegrams: "Chemicus, Cannon, London" (2 words).

CLOSING FOR PRESS.

MUST REACH US
NOT LATER THAN

ALL ADVERTISEMENTS INTENDED FOR
INSERTION IN THIS SUPPLEMENT

FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.

May be consulted at their Offices on matters of Sale, Purchase and Valuation.

1.—MIDDLESEX (Growing District).—General Retail and Dispensing Business, with N.H.I. and Kodak Agency; returns last year exceeded £2,000, under management; scope for increase; estimated value of stock and fixtures £1,200; rent £200, inclusive of rates; held on lease; our client is anxious to sell and will accept first reasonable offer.

2.—NORWOOD.—General Retail and Dispensing Business, with N.H.I.; established 50 years; returns approach £1,600 per annum under management; scope for large increase; living accommodation; rent £45; lease 18 years; price £1,100, or near offer; part could remain.

3.—LONDON, E.—Cash Retail, with N.H.I. Dispensing; established 60 years; returns from pharmacy last year £2,310; net profit £650, plus £150 derived from Post Office; living accommodation; new lease; price £1,500.

4.—LONDON, N.W. (Main Road).—Good-class Retail and Dispensing Business, with small amount of N.H.I.; returns for current year will exceed £2,000; gross profit 40 per cent.; good living accommodation; held on lease; price £2,000; £1,000 down.

5.—WANSTEAD (Near).—General Retail and Dispensing Business, with N.H.I. and Kodak Agency; returns will be about £1,500 this year; scope for enormous increase; double-fronted shop, smartly fitted and stocked; rent £100; price £1,050.

6.—ESSEX (Growing District).—General Retail and Dispensing Business, with Photographic and N.H.I.; returns 1928 £2,223; vendor estimates the value of his stock and fixtures at £800; rent £120; house sub-let to cover whole of rental; long lease; price £1,400, plus our commission.

7.—LONDON, W.C.—General Retail and Dispensing Business, with Kodak Agency; returns for current year will exceed £3,000; rent £200; lease has 19 years unexpired; price to be arranged.

8.—ESSEX (Country).—General Retail and Dispensing Business; returns, £1,200 per annum; net profit £309; no near opposition; price to be arranged; vendor retiring.

9.—SOUTH OF ENGLAND (Spa).—Retail Photographic and Optical Business; returns last year £2,700, of which Optical was £500; two shops, both single-fronted; stock and fixtures £900; living accommodation, ten rooms; rent £112; price £1,650.

10.—ESSEX.—Good-class Retail and Dispensing Business; established 28 years; returns last year £5,452; net profit between £1,200 and £1,300; stock and fixtures estimated at £2,750; rent £350; new lease; price to be arranged.

11.—HERTS. (Few Miles Out).—Family Retail and Dispensing Business, with small amount of N.H.I.; returns last year £1,976; gross profit £820; net profit £620; estimated value of stock and fixtures £800; living accommodation; rent £75, rising to £100; long lease; price £1,500.

12.—SALOP.—General Retail and Dispensing Business; established 1808; returns last year, £3,224; net profit £676; estimated value of stock and fixtures, £1,400; rent £115, for lock-up shop and four storerooms; price £2,000; living accommodation available if required.

13.—HOME COUNTY.—Unopposed light Country Retail Business, with N.H.I. and Kodak Agency; established 30 years; returns £2,100; net profit 30 per cent.; estimated value of stock and fixtures £850; good living accommodation; bathroom; nearest opposition four miles; price, to include freehold, £2,500, £1,100 of which is for the property.

14.—HANTS.—Light Family Retail, with N.H.I.; established 1860; returns £2,000, plus about 20,000 N.H.I. per annum; double-fronted corner shop; price £2,000, or near offer; ill-health sole reason for sale.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means the Profit, the Value of Business, &c., can be determined. Involving as this does the labour of stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

Valuations for Stocktaking

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such service.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

The Association of Manfg. Chemists, Ltd.

Business Agency, Transfer & Valuation Department

Head Offices—Kimberley House, Holborn Viaduct, London,

E.C.1 (and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Valuer.

'Phone: City 1261-2-3

BUSINESSES FOR DISPOSAL

1.—**CARMARTHENSHIRE**.—Old-established Chemist's Business situated in good position on main street, with living accommodation; held on lease for 7-14 years; rent £400 p.a.; returns average £35-40; could be increased; stock approx. £8-900. Further particulars on application. (176)

2.—**DEVON**.—Very old-established Business on lease 6 years at small rental; at present returning £20 per week; could be considerably increased with energy and capital. Double-fronted shop, well fitted. No N.H.I. done, but scope for same; no opposition. (1)

3.—**BOURNEMOUTH DISTRICT**.—Two Cash Drug Stores for immediate disposal; 14 years' lease on each at very low rental; returns for both £30 per week under unqualified management; could be very considerably increased by live qualified man; good living accommodation at one shop, the other lock-up; £1,000 will purchase both. Further particulars on application. (5)

4.—**SCOTLAND**.—Old-established Cash Business in City main road, on lease at low rental; returns £1,700 p.a. Double-fronted shop, beautifully fitted throughout in mahogany; splendid scope for optics. Recommended. (198)

5.—**LONDON, E.**—Old-established Retail and Dispensing Business; returns £3,600 p.a.; good living accommodation; freehold for sale, or would consider granting a lease; strongly recommended. Further particulars on application. (188)

6.—**LONDON, N.**—Established Chemist's Business; premises, which include convenient living accommodation, held on lease, 15 years to run; rental £50 p.a.; stock approx. £285; price asked £550, all at. Further particulars on application. (180)

7.—**CARNARVON**.—Seaside resort, main road, Retail Dispensing and Family Business for quick sale; rent £78; rates £19; returns £1,400, certified accounts; good N.H.I. and some well-known Proprietaries; further particulars on application. (7)

8.—**SOMERSET**.—Drug and Photographic Business; premises, which consist of lock-up shop with room at rear, held on lease with 8 years to run at a rental of £88 p.a. inclusive; good scope for live man; price asked £400. (178)

9.—**LONDON, E.**—Small Branch Business for quick disposal on lease 7 years at £38 p.a.; returns £15 weekly; living accommodation; good reasons for disposal; suit young, energetic pharmacist. (199)

10.—**HAMPSHIRE**.—Family Dispensing and Retail Business for immediate disposal; premises held on lease 14-21 years at a rental of £90 per annum, including excellent living accommodation, garage, good garden; old-established business; shop beautifully fitted; returns £1,900; Medical Wine Licence; price to be arranged; full particulars on application. (190)

11.—**YORKS**.—Dispensing and Retail Business, on lease 7 years at £52 p.a.; rates £32 p.a.; average returns £18 per week; modern house, 8 rooms; splendid opportunity for young energetic man. Full particulars on application. (193)

12.—**LONDON, N.W.**—On lease, 8 years to run, at rental of £78 p.a. inclusive; returns £10 per week; excellent opportunity for qualified man; good opening for N.H.I. Further particulars on application. (195)

13.—**FOREST HILL**.—Recently-established Chemist's Business for immediate disposal; lease 18 years to run at small progressive rent; lock-up, double-fronted shop, well fitted in mahogany; returns approximately £900, which can be considerably increased with personal supervision; further particulars on application. Offers invited. (197)

14.—**DORSET**.—Cash Drug Stores and Tobacconist's, with sub P.O.; 7 or 14 years' lease will be granted at £130 p.a.; returns, drug £1,500, tobacco £500, P.O. £143; good living accommodation; one room above tobacconist; let off to dentist, two days a week at 15s. per week; low price for quick sale. (4)

15.—**HERTS**.—Unopposed Light Country Retail Business, about 28 miles from London, main road to Cambridge; easily worked; no Sunday duty; no N.H.I.; Kodak Agency; returns £2,100; net profit 30%; good all-round stock; nearest opposition 4 miles; good living accommodation; electric light; garden; modern drainage; owner retiring; quick sale desired. (5)

16.—**LONDON, N.W.**—For immediate disposal, Drug Stores; held on lease at rental of £84 per annum; dwelling accommodation at present sub-let £92 per annum; returns average £10 per week; could be considerably increased by qualified man; no reasonable cash offer refused. Further particulars on application. (6)

FOR SALE, as a going concern, the business of Photographic Developers and Printers carried on by Forbest, Limited, at 17 Ambrose Street, Broughty Ferry, Dundee, including the heritable property in which the business is carried on and the whole machinery, plant, fittings and fixtures therein. There is a large turnover and part of the subjects are let to good tenants; assessed rental £127; feu duty £11 8s. 5d.; further particulars on application. (8)

Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—**MIDLANDS**.—High-class Chemist's, with Grocery and Wines and Spirits; returns, £7,000 to £8,000; prominent main road position; own freehold; owner retiring; valuation terms can be arranged.

2.—**HERTS**.—Unopposed light Country Retail; easily worked; returns, £2,100; net profit, £620; good stock; nice house; bath-room, electric light, etc.; owner retiring; price, with freehold, £2,500.

3.—**KENT** (Inland Health Resort).—Cash Retail, with Optics, Kodak Agency and own specialities; returns about £2,700, including £500 from Optics; own property; long lease granted or sell; price £1,200, or near offer, for early sale.

4.—**ESSEX COAST**.—First-class Cash Retail and Dispensing Business, in excellent position; turnover about £5,500; good profits; audited figures; handsome pharmacy, fully stocked; 21 years' lease granted; price £4,750, or valuation terms arranged.

5.—**SHROPSHIRE**.—Unopposed Country Business in centre of large agricultural district; returns about £1,500; qualified owner would quickly double returns; modern shop and house; low rent; fully stocked; price £1,100.

6.—**HOME COUNTY**.—Good middle-class Business, in growing residential district; no near opposition; returns £2,000; net profit over £500; modern pharmacy and house; every convenience; price £1,500 cash.

7.—**MONMOUTHSHIRE**.—Unopposed General Retail and Photo, no N.H.I.; returns £15 to £16 weekly, with scope in younger hands; modern fitted shop; price £275; £150 can remain.

8.—**DALSTON JUNCTION** (Near).—Light Family Retail, with large Panel; no Photo; returns £2,500; net profit £750; low rent; long lease; price £1,550, or offer.

9.—**LONDON, W.**—High-class Retail and Dispensing Business, in main road position; returns over £2,100; net profit £700; valuable lease; well stocked; price £1,850.

10.—**LONDON, N.W.**—Sound light Cash Retail, with Kodak and Rexall Agencies; returns average £2,500; good profits; low lease; lock-up shop; well stocked; price for early sale £1,050.

Stocktaking Valuations.

We are now booking dates for August onwards, and invite early application. Terms on application.

Estab. 1870. Telephone: Terminus 3574.

Are you seeking a business?

WRITE, PHONE OR CALL, GIVING FULL PARTICULARS OF YOUR REQUIREMENTS AND I WILL SUBMIT IN CONFIDENCE DETAILS OF ANY BUSINESS LIKELY TO BE OF INTEREST TO YOU AND ARRANGE FOR YOU TO INVESTIGATE IF DESIRED.

The requirements of all bona-fide purchasers receive close personal attention.

A few personally investigated propositions.

KENT.—Well-established Business; unopposed; doing £35 weekly; showing net profit of £350 on audited accounts; good opportunity for Optics; stock and fittings £1,000; goodwill £750 and good residence, recently built; labour saving; large and well-kept garden and lawns; price of property £2,000.

ESSEX COAST.—Reliable small Business, doing about £35-£40 weekly; established nearly 30 years; audited accounts; profits approximately £400; rent £26; lease; good reasons for selling; stock and fixtures about £900; goodwill to be arranged.

HERTS.—Good Family and Dispensing Business; established 5 years; Photo, Optics and good Prescribing; long lease; turnover approximately £2,000; net profit £600; rent £75, rising to £100; good living accommodation; capable of increase; no near opposition; price £1,500.

SOUTH COAST.—High-class lock-up seaside Business; established 7 years; chiefly cash trade, little seasonal fluctuation; turnover approximately £3,000; net profit £580-£600; rent £175, rising to £200; rates £70; good lease; stock and fittings approximately £1,850; price £3,000, or near offer.

ERNEST J. GEORGE

3 ST. PAUL'S CLOSE, WALSALL, and
7 SOUTHAMPTON ROW, W.C.1.

Phone: Walsall 3774. Hol. 8158.

CHARLES C. MARSDEN**CHEMISTS' VALUER, TRANSFER AGENT & STOCKTAKER
44 SHOLEBROKE VIEW, LEEDS.**

LEEDS. Drug Stores with house. Doing £1,000, splendid opening for N.H.I. and photo. Price £650. Must sell owing to illness. **NEAR LEEDS.** Two village pharmacies, doing £1,400 and £1,000, at £750 and £550. No opposition. **SHEFFIELD (near).** Well-fitted pharmacy with house. 630 scripts monthly, returns £1,000. Scope for increase. Must sell, price £650 or offer.

BUSINESSES FOR DISPOSAL.

HANTS (South Coast).—Main thoroughfare; corner shop, double front; old-established business. Family, Light Retail, Cash; middle class; large N.H.I. Dispensing, Photography; returns over £2,000; good dwelling-house, freehold property, to be sold with business if possible. 63/30, Office of this Paper.

LINCOLNSHIRE.—Good-class Light Retail; Kodak; little N.H.I.; very well stocked, double-fronted shop; prosperous district; opposition 2 miles; returns £20 per week; excellent house, every convenience, could be leased, or shop lock-up; fair deal; every investigation; expenses not heavy; suit qualified or unqualified; must sell for sound reasons. 52/39, Office of this Paper.

LINCOLNSHIRE.—Old-established Business; main street; good district; opposition 5 miles; £30-£40 per week; N.H.I.; shop modern; excellent house and garden; sale through death of owner. Apply, Earl & Lawrence, Estate Agents, Sleaford.

LONDON, N.—General Cash Retail and Dispensing Business, N.H.I. and Kodak Agency; returns £2,350; rent £82 inclusive; lease; well stocked; price £1,350. Also another branch. 2750. Full particulars from 67/39, Office of this Paper.

MIDDLESEX.—Ten miles from London; main road; recently opened; with or without property; Kodak Agency; good D. & P.; no opposition; splendid position; growing neighbourhood; house and garden; genuine reason for disposal. 65/5, Office of this Paper.

MIDLANDS.—Old-established Cash Retail, N.H.I.; good profits; corner shop; living accommodation adjoining; property for sale or lease; price of business £1,800. Full particulars, Kidson, Accountant, Waterloo Road, Wolverhampton.

NEW BARNET.—Old-established Retail and Dispensing Business; being sold owing to the death of owner; expensively fitted shop, facing station; large dispensary, stock room and basement, bathroom and five living rooms; trade over £4,000 per annum, still increasing; chartered accountant's balance sheets to prove; Kodak Agency, etc.; price £3,000, including goodwill, valuable fixtures and fittings, etc.; stock at valuation; freehold property £1,600, or lease will be granted for 21 years at £120 per annum. For further particulars apply Sole Agents, James Buffon & Co., 131 High Road, Balham, London, S.W.12. Telephone: Streatham 7544 (2 lines).

NORTH OF ENGLAND.—Old-established Business (part Wholesale connection Doctors and Works) for Sale through death of owner; turnover for 1928, £4,400; stock, £2,150; book debts (optional) £310. For further particulars apply J. W. Armstrong & Sons, Accountants, 2 Collingwood Street, Newcastle-upon-Tyne.

NOTTINGHAMSHIRE.—Owing to ill-health old-established Country Business; Wine Licence, Kodak Agency; suit qualified or unqualified; well-stocked, double-fronted shop, good house and garden; good opening to live man; full particulars to genuine inquirers; must sell; nearest opposition 5 miles; £750, stock and fixtures; a bargain. 66/23, Office of this Paper.

SCOTLAND, EAST (County Town).—Chemist's Business and Property; General Retail and Dispensing, with N.H.I., Kodak Agency; double-fronted shop, well fitted and stocked; scope for increase; living accommodation; vacant possession; nice garden. Further particulars, 54/36, Office of this Paper.

SHEFFIELD.—Industrial suburban Pharmacy, with house attached; reasonable rent; highest offer above R.P.U. valuation accepted; urgent sale owing to sudden illness; balance sheet accountant's figures available. Full particulars, with order to view, 65/19, Office of this Paper.

SOUTH-EAST COAST.—Light Retail; good-class business in increasing neighbourhood; Kodak Agency; no opposition; turnover £1,200 per annum, increasing; lock-up shop; 13 years' lease; rent £45; good reason for disposal; price £650. 65/26, Office of this Paper.

WEST WALES (residential seaside resort).—Profitable Light Retail and Dispensing, with Wine Licence, in delightful position; easily worked; returns £300, increasing; net profit over £500; scope for considerable increase; unaffected by industrial depression; large house; lease; price £450. Apply 65/25, Office of this Paper.

A GENUINE OFFER.—Chemist-Optician Business for Sale; turnover exceeds £2,700; Southern County; lease 21 years; rent £58; busy town; present owner's property; established 10 years; would sell separate; ill-health reason; stock, fittings, goodwill, lease for £950; only genuine buyers need apply; audited accounts available. For quick sale apply 68/35, Office of this Paper.

CHEMIST'S Mixed Business for disposal (death vacancy); sound concern; good profits; nearest opposition 3 miles; Post Office carried on; rent and expenses low; reasonable price to cash purchaser. Apply Newborn, Solicitor, Epworth, Doncaster.

HERBALIST'S; lock-up shop; central position; one of best postal addresses in London; suit small Chemist; gas, electric, water and phone on; rent, rates and phone charges only 16s. 6d. weekly; price £100, stock, fittings, all at. Apply "Herbalist," 113 Weymouth Terrace, E.2.

PHARMACY, at present under unqualified proprietor, situated best part of shopping centre of Westcliff; superior fittings, fair variety of stock; unlimited scope for N.H.I., Optical, etc.; long lease; ladies' and gents' hairdressing saloon rear of premises; good living accommodation; must sell immediately owing to illness; £1,250, or offer for quick sale; part purchase price can remain. Apply at once, 104 Valkyrie Road, Westcliff. Phone: Southend 2834.

SPLENDID OPPORTUNITY.—Pharmacy Business, positively growing, on main road city, West of England; Prescribing, Optics, Photography, Panel and support of four Doctors; 12 medicos in immediate vicinity; no serious opposition; goodwill and fittings £500; s.a.v., approximately £500; excellent living accommodation; garden and brick-built store; good lease at £95 per annum; premises may be purchased at £1,200; perfectly sound and honest reason for sale; every investigation; bank or reliable references required; no agents. 66/11, Office of this Paper.

TO CHEMISTS.

TO be Sold as a going concern, owing to death of Proprietor, an old-established business as Chemist and Stationer carried on for over forty years at Ramsey, Huntingdon, by the late Mr. O. G. Howe. The house, shop and premises, which are included in the offer, are situated in the High Street, Ramsey, and are well adapted to the trade. For further particulars, and to view, apply to Messrs. Serjeant & Son, Solicitors, Ramsey, Huntingdon.

£275 ALL AT.—Drug and Photographic Stores; lock-up; busy spot London, N.1; no immediate opposition; good scope for N.H.I.; good Prescribing; takings, under indifferent management, approximately £12 week; could easily be doubled. "Ensign," 67/40, Office of this Paper.

£400 secures established Business, well fitted and stocked; also nine years' lease of good corner position on main road in largely populated district; nice house, with private entrance; gas, electric, bath, etc.; this business in the right hands should prove a good investment; excellent scope for Optics, etc. Reply 67/35, Office of this Paper.

BUSINESSES WANTED.

CHEMIST wishes to purchase now a really genuine Business in London or Home Counties where a fair living can be guaranteed. Please give necessary general particulars in reply, which will be honoured in strictest confidence. Advertiser can interview and if suitable complete negotiations immediately. 65/2, Office of this Paper.

WANTED, Country Business; capable of increase; good house and living accommodation essential; no agents; all particulars and details treated in strict confidence; if suitable would prefer Managership with view to purchase, but this not essential. 66/3, Office of this Paper.

WANTED, at once, Business in South of England; returns not less than £2,000; must have good living accommodation "H. G.," c/o Messrs. Wright, Layman, Southwark Street, London.

APPOINTMENT.**BIRMINGHAM CENTRAL TECHNICAL COLLEGE.**

A PPLICATIONS are invited for the post of Lecturer and Demonstrator in Pharmacy. The position is a whole-time appointment, commencing, if possible, on 1st October next. Candidates must possess a University Degree in Pharmacy or the Pharmaceutical Chemists' qualification of the Pharmaceutical Society. Preference will be given to applicants who have had some teaching experience. Salary in accordance with the Burnham Scale. Particulars of the appointment will be sent on receipt of a stamped addressed foolscap envelope, by the Principal of the Central Technical College, Suffolk Street, Birmingham, to whom applications, on the special form provided, should be returned by September 14th.

P. D. INNES, Chief Education Officer.

AGENCIES.

WESTERN COUNTIES AND SOUTH WALES.—Pharmacist, with a valuable connection and successful selling experience, covering a period of many years, desires Agencies or Proprietaries; own car; advertiser would consider an investment with services. Clark, Swiss Cottage, Portishead, Somerset.

All excellent novelty side line for the right men calling on Chemists and Stores, preferably with Shaving Brushes, etc.; good commission. Fullest particulars to 64/15, Office of this Paper.

SOLE Agent wanted for the sale in Great Britain of a patented German Antiseptic and Prophylactic; must have good connection among dealers in pharmaceutical specialities. P.C.B. 57/35, Office of this Paper.

PREMISES TO LET.

SHOPS with Flat over to Let on lease in excellent position at Bromley; suit Chemist. Apply Baxter, Payne & Lepper, opposite G.P.O., Bromley, Kent.

Small Shop attached to a chemist's in West-End; available for a qualified Optician wishing to start on his own account; moderate rental; essential fittings and apparatus available; small existing connection, which is capable of considerable extension. Apply 68/19, Office of this Paper.

TO Let or for Sale, Benfleet, Essex, new Shop in block of 12; 10 occupied; splendid opening for Chemist and Optician; rent £2 exclusive, or £950 freehold. Apply Raffin, South Benfleet, Essex.

PATENT.

IT is desired to secure the full commercial development in the United Kingdom of British Patent No. 241,109, which relates to "Improvements in Quinine Compounds and Process of Making the Same," either by way of sale or the grant of Licences on reasonable terms. For particulars apply Phillips's, 70 Chancery Lane, London, W.C.2.

APPRENTICESHIP.

APPRENTICE.—London Chemist desires to indenture his son (age 17½ years, passed Part I) in a good Pharmaceutical business; London district preferred. 66/39, Office of this Paper.

SITUATIONS OPEN.

RETAIL [HOME].

BARNES.—Unqualified gentlemanly Junior required, with first-class Dispensing and Counter experience, for Family business for September 23. Please state full particulars of experience, age, salary required to A. T. Gray, 5 High Street, Barnes, S.W.13.

BIRMINGHAM SUBURB.—Junior Assistant wanted, chiefly for Dispensing and Stock-keeping; man seeking permanency preferred. Bramleys, 87 Holyhead Road, Handsworth, Birmingham.

BOURNEMOUTH.—Thoroughly reliable Junior or Improver; must be of smart appearance and well recommended; just out of apprenticeship will do; state age, experience and salary required, photo if possible. A. E. Lodder, 125 Seabourne Road, Bournemouth.

HERTS VILLAGE.—Lady or gent., unqualified, for Light Retail, Counter and Stock-keeping; pleasant country; easy berth. State age, experience, salary, and send photo, which will be returned. 62/53, Office of this Paper.

LIVERPOOL.—Qualified Manager, under 35; industrial neighbourhood; house available; must be efficient and reliable; undeniable references; abstainer preferred. State age, references, experience, salary, enclose photo. Mussell, Chemist, Garston, Liverpool.

LONDON, N.—Wanted, male Junior Assistant (outdoors); Dispensing, Retail and Photography. Give particulars of age, experience, height, and salary required. If photo is submitted it will be returned. Apply 65/15, Office of this Paper.

LONDON, N.E.—Young Assistant, capable of taking charge; good Counterman and Window-dresser. Apply by letter, giving particulars with salary required (outdoor). Tabor & Cresswell, 138 High Street, Kingsland, E.8.

LONDON, N.—Competent Assistant, outdoor, age about 25, of good appearance and address, for good middle-class Dispensing and Retail, with N.H.I. Please state salary required and full particulars, to R. Seldon, 115 Turnpike Lane, Hornsey, N.8.

LONDON, W.—Wanted, a gentlemanly Senior Assistant in a high-class Dispensing business (three assistants kept); must be capable of managing. 65/14, Office of this Paper.

LONDON (City).—Wanted at once as Locum, a smart, unqualified Junior (male) Assistant. 3 Queen Street, Cheap-side, E.C.4.

LONDON.—Competent, unqualified Assistant required. Apply Shadforth Prescription Service, Ltd., 49 King William Street, London Bridge, E.C.4.

LONDON.—Qualified Locum for four or five weeks. Apply 67/5, Office of this Paper.

LONDON, S.E.—Qualified lady wanted for Retail; able to manage shop; hours 10-30 a.m. to 8 p.m. Write in first instance to 66/40, Office of this Paper.

LONDON, S.W.—Qualified Assistant, about 30, as Senior in high-class Dispensing business. Apply, stating experience and salary required, P.C.B. 59/10, Office of this Paper.

LONDON, W.C.—Smart qualified Assistant required, commencing September 16; permanency; accustomed to West-End Dispensing and Counter-work; good berth to suitable applicant; salary £5. Write, stating age, height, experience, 68/18, Office of this Paper.

MANCHESTER.—Young qualified Assistant wanted for middle-class business; outdoors; well up in N.H.I. and Photographic. Give full particulars in first letter, salary, etc. "Ardwick," 66/37, Office of this Paper.

NORTHAMPTONSHIRE.—A vacancy occurs for a qualified Manager to take charge of a good-class Light Retail and Family business, with house attached. This is a progressive and comfortable permanency, and full particulars of previous experience, age, salary required, and when at liberty, should be given to 68/8, Office of this Office.

NORTH MIDLANDS.—Thoroughly experienced Assistant wanted for September 9; qualified or unqualified; must be quick, accurate and neat Dispenser; 26 to 30 years; single; partnership entertained if able to take half share. 68/20, Office of this Paper.

NORTH WALES.—Wanted, Junior Assistant; accustomed to good-class business; duties chiefly Dispensing. Apply, stating age, height, experience, salary required (outdoor), and when at liberty, to 67/14, Office of this Paper.

SCARBOROUGH.—Wanted, a qualified Assistant; one seeking experience might suit. Apply, giving all particulars, to R. W. Holmes, "Semloh," Scalby Road, Newby, Scarborough.

SHEFFIELD.—Experienced qualified Manager required for branch; must be good Window-dresser and accurate Dispenser. Reply, giving full particulars, including age, salary required and references, with photo (to be returned), addressed Secretary, Brightside and Carbrook Co-operative Society, Ltd., Exchange Street, Sheffield, endorsed "Pharmacist."

WINCHESTER.—Assistant, young, required; accurate Dispenser and good Window-dresser. Full particulars and photo if convenient. A. Smith, 155 High Street, Winchester.

A GENTLEMANLY, competent, qualified Assistant, capable of taking charge, age 25 to 35, with Photography, comfortable berth, good-class business, for permanency; full details first letter; photo if possible; wanted immediately. Lane, Chemist, Western Road, Hove.

A QUALIFIED Chemist wanted for Locum in South-east London, from August 24 until September 14. 155/492, Office of this Paper.

A SSISTANT, single, male, unqualified, age 25 to 30, for high-class Counter trade; Photographic knowledge unnecessary; smart appearance and highest references essential; photo; personal interview preferred. Hickman & Metcalf, Pharmacists, Newbury.

A SSISTANT; unqualified; lady or gent; good Dispenser, Counter and Window-dresser; medium height. Full particulars age, height, experience and salary required, H. Temperton, 101 St. Mark's Road, Bush Hill Park, Enfield.

A SSISTANT, unqualified, required for Wembley; Dispensing, Counter and Photography; must be good Salesman. Salary, references, to S. W. Bearman, Pharmaceutical Chemist, Sudbury Hill, Harrow.

JUNIOR Assistants and Improvers required immediately for general all-round Counter duties. The Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, S.E.

JUNIOR Assistant wanted mid September, chiefly for Counter and N.H.I. Dispensing in Light Retail business with Photography. Apply, giving references, particulars of experience, age and salary required, enclosing photo if possible, Thursfield & Co., Chemists, Rockingham Road, Kettering.

JUNIOR Assistant required; Retail, Dispensing and Photographic. Full particulars first letter, age, experience, salary required, when disengaged, enclose photo. J. H. M. Land, Chemist, Infirmary Square, Leicester.

JUNIOR Assistant for light Retail; careful Dispenser. Please give full particulars of experience, stating age, height, salary required, when disengaged, enclose photo. Youngmans, Chemists, Bury St. Edmunds, Suffolk.

LADY Dispenser wanted, September 2, for Doctor's Surgery as Locum with view to permanency. Apply, giving full particulars, to Mitchell & Co., Chemists, 56 Woodgrange Road, Forest Gate, E.7.

LADY Assistant required for Surrey vacancy; age about 25; must be well up in Dispensing and accustomed to high-class chemist's business. Send full particulars, age, height, references, experience, salary required, and when disengaged, to E. T. Neathercoat, 61 Welbeck Street, London, W.1.

LEWIS'S, LTD., Birmingham, have vacancies in their Perfumery and Patent Medicine sections for male or female Charge Hands, age about 25; capable, smart appearance and thorough experience of the merchandise is essential. Apply in the first instance by letter, giving full particulars and enclosing photograph, which will be returned, to the Staff Manager, Lewis's, Ltd., Birmingham.

LOCUM wanted, unqualified Junior, for September; country business 35 miles from London. 66/3, Office of this Paper.

LOCUM, qualified, wanted for first or second week in September. State terms and when free to Smith, Chemist, Moor Street, West Bromwich. If not answered in four days declined with thanks.

LOCUM required, September 7-11 inclusive. Full particulars, please, to Walker & Harris, Canterbury.

MANAGER (young), with Optical qualification, required, S.E. London; must be good Window-dresser; permanency and excellent prospects. State age, salary, and equipment (if any). 155/488, Office of this Paper.

MANAGER for established business required early September. Full particulars, with references, to S. W. Bearman, Pharmaceutical Chemist, Sudbury Hill, Harrow.

MANAGER (qualified) for Cash Dispensing Chemists wanted; applicants must be capable business men, accustomed to good-class trade, with sound experience and ability. State age, salary, references and when at liberty in first letter. 155/491, Office of this Paper.

MANAGER (lady or gentleman) for small Business (Monmouthshire); good chance to acquire the business on very easy terms, as owner has an appointment elsewhere; elderly would suit. Apply, stating salary required, with references, 67/20, Office of this Paper.

MESSRS. SAVORY & MOORE, LTD., will be requiring shortly the services of several responsible and experienced Managers in connection with a new development scheme; applicants must be accustomed to high-class Dispensing Practice and must be capable of managing the staff and the organisation of a branch business generally. Send full particulars as to experience, age, height, references, and all other information in writing in the first instance to E. T. Neathercoat, Savory & Moore, Ltd., 61 Welbeck Street, London, W.1.

QUALIFIED lady, young; busy Counter and Dispensing experience essential. W. H. Green, 28 Earl Street, Coventry.

QUALIFIED lady Chemist required shortly for Cardiff, with good all-round experience; should be energetic and courteous with good personality. Kindly send full particulars in first letter of experience, references, age, salary required, and when at liberty. Apply 60/24, Office of this Paper.

QUALIFIED, mainly for heavy N.H.I. Dispensing; must be experienced and thoroughly reliable; middle-aged gentleman preferred; no Sunday duty. Abelson, 267 East India Dock Road, London, E.14.

QUALIFIED lady required for Nottingham; must be good Counter-hand; knowledge of Photography essential; good post for industrious assistant. State full particulars of experience, age, etc., salary required, reference to Hudson, Chemist, Skegness.

QUALIFIED Assistant (male) required for middle- and working-class business near Liverpool; experienced, energetic, reliable and trustworthy; references. Give full particulars, including age, height, salary required to 66/29, Office of this Paper.

SPEECHLY & MILBANKS, Bishop Stortford, thank the many applicants who replied to their advertisement for position of Junior Assistant, but owing to the selected one being unable to accept at the last minute, the vacancy is still open for September 2; state salary, age and references.

STOCK AND WINDOW-DRESSING.—A good opening for one who can dress a window and design the cards and labels for it; must be able to teach the packers to do his requirements. Apply 66/30, Office of this Paper.

SURGICAL Instruments Business in the North; Salesman; must be accustomed to attending to Doctors. State age and experience; thorough knowledge of Surgical Instruments and reproachable character indispensable. Reply 67/36, Office of this Paper.

TAYLORS (CASH CHEMISTS) have vacancies for several Juniors in London and district; applicants should be quick and accurate Dispensers and be good Countermen. Give full particulars of previous experience, stating age, salary required, and when at liberty, to AMG/MBA, Taylors (Cash Chemists), Midland, Ltd., Hazelwell Lane, Stirchley, Birmingham.

London REPRESENTATIVE

required for Great Britain, by

Large NEW YORK DRUG FIRM

Applicant must be thoroughly acquainted with the Wholesale Trade requiring Botanical Drugs and must have ability in both buying and selling.

REPLIES WILL RECEIVE STRICT CONFIDENCE

P/Y 42, Office of this Paper.

TAYLORS (CASH CHEMISTS) have one or two good openings for qualified Managers; all applicants should give full particulars of all previous experience, and also state age, whether married or single, and when at liberty; only managers are wanted who are keen business men and have up-to-date ideas. Letters not answered in four days are respectfully declined. AMG/MBA, Taylors (Cash Chemists), Midland, Ltd., Hazelwell Lane, Stirchley, Birmingham.

THERE is shortly to be filled in a West-End Pharmacy of a high-class character a position requiring the services of a young lady of good address between the ages of 16 and 20; the work will be interesting, and carry with it good experience involving duties of a general character about the pharmacy; no counter work. Apply 155/489, Office of this Paper.

THORNBERGERS (CHEMISTS), LTD., Accrington, have a vacancy for a Branch Manager; living accommodation is available; house, rent and rates free; salary and commission. Please forward full particulars with photograph, if possible, in first letter.

UNQUALIFIED Assistant (male), outdoors, about 24, accustomed to high-class Retail and Dispensing, required about middle of September in Yorkshire city; no N.H.I.; first-class experience and good writing essential. Young Junior (Improver) also required. 68/11, Office of this Paper.

WANTED, smart qualified for branch in Lancashire industrial town; wages £4 per week. Full particulars to "Alpha," 62/31, Office of this Paper.

WANTED, smart, qualified Manager for Chemist's shop in Southport. Apply, stating age, qualifications, experience, two testimonials, and salary required, to 155/475, Office of this Paper.

WANTED, immediately, smart, experienced, qualified Manager; good Salesman and Window-dresser, with up-to-date ideas. Full particulars, age, salary, and references, etc., in first letter to A. E. King, Chemist, 192 Stapleton Road, Bristol.

WANTED, in September, young qualified Assistant; knowledge of Optics a recommendation. Please send full particulars, age, height, salary required, photo if possible (to be returned). Write Bates, "Dunmore House," New Road, Willenhall, Staffs.

WHOLESALE.

REPRESENTATIVES required for all provincial districts by important well-established firm of Toilet Soap and Perfumery Manufacturers to carry lines on commission basis; part expenses after trial period; London area already covered; exceptional opportunity for first-class men who can get results; those carrying not more than one or two non-competitive lines will be considered; car an advantage. Highest credentials and established connection with Departmental Stores, Chemists and Beauty Salons essential. Write (in confidence), stating territory covered, connections, houses already represented and fullest particulars, to 155/490, Office of this Paper.

PRACTICAL Man, wanted for small Druggist's Laboratory. State age, experience, wages required, etc., to P.C.B. 59/8, Office of this Paper.

REPRESENTATIVE wanted by Manufacturers of well-known, well-advertised product to call on Wholesale Druggists in Lancashire, Yorkshire and Northern Counties; salary, commission and expenses; must be well educated and well known to wholesale druggists in North of England. Replies, giving fullest details, to 155/486, Office of this Paper.

REPRESENTATIVE required by well-known Manufacturing House with old-established connection to interview the Medical Profession, Chemists, and to call on Institutions; area, North-West England; a thorough knowledge of Drugs, Surgical Instruments and Packed Proprietarys essential. Write, giving full particulars, to Managing Director, Reynolds & Branson, Ltd., 13 Briggate, Leeds.

REPRESENTATIVES (Toilet Preparations).—If you are calling on Ladies' Hairdressers and Chemists with Toilet Preparations we have an Agency to offer that will bring you an extra £3-£5 per week; only two lines to carry; good display matter, good profit and bonuses to the trade; something you can sell and get repeats on; we are interested only in men with own cars calling on small as well as large towns and working intensively; to real salesmen this is a real opportunity. P.C.B. 58/18, Office of this Paper.

REQUIRED. Representative calling on the Medical Profession in London. Full particulars to 155/485, Office of this Paper.

SALESMEN required for high-class Toilet Novelties and Sundries, French Perfumes, Creams, etc. Applicants should state full details, if possessing car, number of accounts opened, experience, etc., and territory covered, also terms, to P.C.B. 69/5, Office of this Paper.

TRAVELLERS open for additional commission among Retail and Wholesale connection; please state district covered and lines carried; generous terms to right men seeking permanent engagement; P.A.T.A. and other popular lines. Write (in confidence) Lion Works, Tottenham Hale, N.17.

(COLONIAL, INDIAN AND FOREIGN.)

INDIA.—British firm of Wholesale and Retail Chemists in Calcutta require a qualified Minor Assistant, about 25, single, careful and neat Dispenser, with at least 2 years' experience as qualified assistant; 4 years' agreement; salary, first year, Rs. 500 monthly (about £37 15s.); second year, Rs. 525 (about £39 12s. 6d.); third year, Rs. 550 (about £41 10s.); fourth year, Rs. 575 (about £43 7s. 6d.). Apply, giving particulars of experience, etc., to P.C.B. 8/17, Office of this Paper.

SITUATIONS WANTED.

RETAIL [HOME].

A.A.—QUALIFIED, age 28, desires position in good-class business as Manager or Assistant; London only; twelve years' London, American and Continental experience; fluent French; good appearance. 67/26, Office of this Paper.

A LOCUM; disengaged after August 31; excellent references and experience; moderate salary. "G.," 120 King William Street, Tunstall, Staffs.

A QUALIFIED lady, experienced, capable, desires permanency as Manager or Senior Assistant in good-class business. 64/9, Office of this Paper.

A CAPABLE Assistant, 22, desires situation in good-class Pharmacy; London preferred; excellent Dispensing and Counter experience in London and provinces. Write Gregory, 8 Spey Street, Poplar, E.14.

A QUALIFIED, 30, all-round experience, seeks permanency, Manager or Senior, in middle-class Pharmacy; Yorkshire or Midlands. 67/8, Office of this Paper.

A RESPONSIBLE position desired by Pharmacist (40) with exceptional experience in all branches; capable administrator and Salesman. 65/4, Office of this Paper.

A CTIVE, qualified, young, seeks permanency as Manager or Assistant in London; experienced all branches; free September 30. "M.P.S.," 52 Stockwell Park Crescent, Stockwell, S.W.9.

A LL-ROUND, conscientious, experienced Assistant, 24, obliging Counterman, capable Dispenser, West-End, City experience, seeks permanency. "Herts.," 67/7, Office of this Paper.

A PPRENTICE.—Young lady (Irish) desires Apprenticeship to a Chemist with a view to the English qualification; London preferred; 3 years' experience in Ireland. Miss P. O'Keefe, 588 Commercial Road, London, E.1.

A S Locum or permanent; young; qualified; sound experience; highest references; disengaged September 14; Welsh speaking. 62/35, Office of this Paper.

A S unqualified Chemist; 18 years' Dispensing, Pharmaceutical, Therapeutic experience; obliging; reliable; excellent testimonials. Box A.R.121, 55 Bryanston Street, W.1.

A S a good General Assistant; has had management and several years' locum work; used to good business; good Dispenser and heavy Panel and quick Counter trade. Gibson, "Stanleys," 10 North Pole Road, Kensington, W.10.

A N unqualified Assistant requires position shortly; excellent West-End experience and good references. 66/22, Office of this Paper.

A NYWHERE IN THE NORTH OF ENGLAND.—Smart Counterman and Dispenser requires change; permanent; at present employed in Essex; expert Window-dresser; first-class credentials; tall; 23; Sunderland man. 67/27, Office of this Paper.

A SSISTANT; 22; Dispenser and high-class Counter experience; disengaged; London preferred. H. Parkin, New Longton, Preston.

A SSISTANT, 34 (Part I), desires position; preferably in Wales; good Dispensing and Counter experience; knowledge of Photography; good references; single; abstainer; Welsh spoken. Williams, 47 Portland Street, Aberystwyth.

A SSISTANT, 21 (Part I), disengaged, requires situation until October. "S. J.," 3 Pleasant Terrace, Clydach Vale, Rhondda.

A SSISTANT or Locum; Counter, Dispensing, Photography; energetic; active; unqualified; disengaged; good references. "K.," 62 Blenheim Road, East Ham, E.6.

A SSISTANT; unqualified; age 32; tall; abstainer; thoroughly reliable in Dispensing, Counter, Photography and Window-dressing; acted as relief manager since June for company's branches; engagement terminates end of month; previous berth 2 years; permanency or otherwise; London or provinces. "Salol," 65/18, Office of this Paper.

A SSISTANT; 25; disengaged; good Dispensing, Counter and Photographic experience; well recommended. G. Ramdin, 41 Westcroft Square, W.6.

A SSISTANT; 21; 4 years' London and provinces; tall; good appearance; sound worker; accurate Dispenser, Counter, Photo, Window; good references. Heeks, 55 Norion Road, Evesham.

A SSISTANT; unqualified; can manage; disengaged September 2 to 14 and September 30. "Radix," 72 Tremadoc Road, Clapham, S.W.4.

A SSISTANT, unqualified, 25, good experience, Dispensing, Counter, Photographic, energetic, requires permanent engagement; good references. 66/27, Office of this Paper.

A SSISTANT (lady); unqualified; 8 years' all-round experience; keen Saleswoman; good worker. 68/7, Office of this Paper.

B IRMINGHAM.—Qualified man (M.P.S., F.S.M.C.), at present in responsible position, taking up Medicine at Birmingham University in October, desires part-time employment, evenings, week-ends, with Doctor, Chemist or Optician. 63/29, Office of this Paper.

C APABLE Manager desires permanency; London or near; thoroughly qualified in all branches, Pharmacy, Optics and Photography; excellent recommendations; disengaged after August 24. "Chemist," 34 Woodstock Road, Bedford Park, W.4.

C HEMIST, reliable, progressive, thoroughly competent manager, desires charge sound business with scope where free hand and share of increased profits given; South Coast preferred. 66/31, Office of this Paper.

D ISENGAGED.—Assistant or Locum; good all-round West-End experience. Arthur, 62 Caldecot Road, Denmark Hill, London, S.E.5.

D ISENGAGED.—Qualified Chemist; 37; married; abstainer; Manager; sound experience all branches; good references; London area preferred, not essential. "M.P.S.," 39 Monk's Road, Lincoln.

D ISPENSER.—Young lady (London College of Pharmacy, Certificated, London) desires post. Miss Sheldrake, "Romanby," Northallerton, Yorkshire.

D ISPENSER (Hall), lady, efficient, 9 years' experience, seeks post with Doctor, Hospital or Chemist; used to busy practice and can do Book-keeping and Typewriting. "Dispenser," "The Cottage," Monument Green, Weybridge, Surrey.

D ISPENSER, male, 35, qualified, desires post; experienced, accurate; total abstainer; moderate salary; good references. 66/35, Office of this Paper.

D OCTOR highly recommends his late Compounder-Book-keeper as absolutely efficient, honest, sober and obliging. "Rubra," c/o Chemist, 6 Beckton Road, E.16.

E NERGETIC, unqualified Assistant seeks part-time post; West-End experience; quick Dispenser; excellent references; London, S.W., preferred. 68/9, Office of this Paper.

E XPERIENCED, qualified Chemist, disengaged end October, is desirous of obtaining good permanent position, view to interest in business; Birmingham or district preferred; excellent references. 67/9, Office of this Paper.

I MPROVER; excellent testimonials and good experience in Dispensing, Photography, Counter, Stocks, etc.; nearly 20 Ernest Darley, 35 Chestnut Street, Southport.

I MPROVER or Junior Assistant, 19 (Part I), desires situation Dispensing, Photographic, Counter and Window-dressing experience. Write N. Robinson, 23 Moorhead Street, Colne, Lancashire.

J UNIOR Assistant or Improver (lady) requires post; free now; highest references. Apply Slinn, Old House Farm, Thakeham, Pulborough, Sussex.

J UNIOR Assistant (Part I), 20, requires permanency; London district preferred; seaside and London experience. Williams, "Eirianfa," Aberdovey.

L ADY Dispenser (Hall), Secretary, desires post with Doctor in October; 6 years' experience; East or South-Eastern district. 57/38, Office of this Paper.

L ADY Assistant, unqualified, 23, tall, little experience, desire permanency, S.W. preferred; disengaged. Smith, 10 Arundel Road, Littlehampton, Sussex.

LADY Dispenser (Hall), experienced, desires Locum post; disengaged now. Miss Rawcliffe, 187 Watling Road, Fulwood, Preston, Lancashire.

LEICESTER.—If the services of an unqualified Assistant, all-round Pharmacy experience, are required, reasonable low salary, please communicate Spencer, "Bronte," Browett Road, Radford, Coventry.

LOCUM; Pharmacist; excellent experience and references; disengaged from September 16; or permanency. Wood, c/o Mr. Latham, Chemist, Warsop, Derbyshire.

LOCUM; one week vacant, Monday next, 26th to 30th, inclusive, or odd days; unqualified. Phone: Willesden 1039.

LOCUM or temporary situation; single; qualified; age 31; as Manager or Assistant; commence September 4 or after. "Chemist," 2 School Road, Troedyrhiw, near Merthyr.

LOCUM; free September 9 until beginning October. Write A. Read, M.P.S., c/o Mrs. Tyrrell, Havelock Cottage Dairy, Havelock Road, Great Yarmouth.

LOCUM, qualified, age 31, desires engagements for short or long periods, anywhere. "Chemist," 19 New Steine, Brighton.

LOCUM; free August 26; town or country; good references; unregistered. Taylor, 2 Allertree Road, Fulham, S.W.6.

LOCUM or permanency; Unqualified Assistant, 20 years' experience, disengaged through motor accident, open to engagement from September 16. Moore, Prince Albert Conalescent Home, Worthing.

LOCUM or Manager; qualified; competent; reliable; over twenty years' experience, mostly West End; disengaged September 21. "Pharmacist," 81 Camden Road, N.W.1.

LOCUM; qualified; retired Chemist; excellent references; disengaged August 27 to 31 and after September 8. Flat 2, 5 Colville Mansions, Powis Terrace, Bayswater, W.

LOCUM or permanency; disengaged September 9; male; Pharmacist; experienced; moderate salary. "Pharmacist," 57 Western Road, Ealing, W.5.

LOCUM; young; fully experienced; free September 16; excellent references. 64 Dalryell Road, Brixton, S.W.9.

MANAGER, qualified, 27, married, desires change; must be progressive position; excellent references. 65/21, Office of this Paper.

MANAGER; 26; qualified; single; thorough experience in all branches of quick Retail Pharmacy; trustworthy, capable and energetic; Liverpool or Manchester. 68/6, Office of this Paper.

M.P.S. AS Manager or Senior Assistant; London or district preferred (not essential); excellent varied experience; age 24; free now. Apply Rigg, 93 St. Philip's Road, Cambridge.

M.P.S., 36, requires herth in or near Liverpool; abstainer; reliable and experienced. "Chemist," 7 Belgrave Road, Aigburth, Liverpool.

M.P.S..—Good all-round practical Chemist, 20 years' experience, requires situation as Manager, Manager with gradual succession, Manager with succession at once; part cash own, or business with prospects; at liberty September 16; a "square" deal given and expected. 66/26, Office of this Paper.

QUALIFIED, 57, single, disengaged, desires post as Manager; London district preferred; thorough London and country experience. 61/12, Office of this Paper.

QUALIFIED; 25; all-round experience; excellent references; Manager, Assistant; London or North. Walker, Coronation Street, Barnard Castle, Durham.

QUALIFIED; Locum or permanent; disengaged; excellent references; experienced.—15, Bedford Street, Liverpool.

QUALIFIED; first-class hand; disengaged September 9; Locum or permanency. "Pharmacist," 159 Church Street, Kensington, W.8.

QUALIFIED; young; single; good middle-class experience; N.H.I., Photographic; good references; Midlands preferred. Miller, 26 Morley Street, Kettering.

QUALIFIED, 21, tall, having had good-class Dispensing experience, able Counterman (including Photographic), requires engagement, either Locum or permanent. "M.P.S.," 5 Dulverton Road, Leicester.

QUALIFIED, young, energetic, thorough experience, London or provinces, seeks permanency; Manchester preferred. 4 Parrewood Road, N. Withington, Manchester.

QUALIFIED, 27, as Branch Manager; sound references; well experienced in all branches; London or near. "Chemist," Birdcroft Road, Welwyn Garden City.

QUALIFIED; as Manager; 26; seven years' thorough all-round experience in brisk middle-class pharmacy; quick, reliable, trustworthy and energetic; good Salesman, Window-sser and Stock-keeper; South London. "Prescriber," 152 Eley Road, S.W.11.

EXCEPTIONAL MAN AVAILABLE —at a price

I am at the present moment a Director and Sales Manager of a firm of Manufacturing Chemists. I am not satisfied that the future holds that prospect of progressiveness which to my nature is essential. I am therefore resigning my post on September 15th.

I have had 20 years' experience of manufacturing, of selling, of advertising, and of distributing proprietary lines in England and the United States—a comprehensive and valuable experience. I am well aware of its value. Without boasting, I declare that I do not believe there is a man in this country who could match me at getting quick and effective distribution for a new product (or an old one that has fallen behind) amongst wholesale and retail chemists. This conviction has been forced on me by my past results.

Which is to be the lucky firm that is to have my services next? Applications will be dealt with strictly in the order in which they are received. Address to:

**BOX 492,
Smith's Advertising Agency, Ltd., 100 Fleet St., E.C.4**

QUALIFIED wishes permanency; South England preferred; eight years' experience; references, etc. Nan Crawford, 1 Northumberland Terrace, Putney.

QUALIFIED; Manager or Assistant, with view to ownership; excellent references; Kent Coast. Flat 2, 6 Colville Mansions, Powis Terrace, Bayswater, W.

QUALIFIED, 25, eight years' high-class London, provincial and Continental experience, seeks post, preferably West End or City; good appearance and address. "M.P.S.," 66/20, Office of this Paper.

QUALIFIED, experienced Manager desires re-engagement; good references; position with Wholesale firm preferred; London. 67/1, Office of this Paper.

QUALIFIED, also F.S.M.C., F.I.O., on J.C.Q.O., age 35, tall, teetotal, gentlemanly, 20 years' good all-round experience, seeks position as Assistant, Dispensing, Photographic, Counter, Optics, in London (S.E. preferred, but not essential); all evenings desired free from five; available middle September. Please state salary offered; references undeniable. Apply "Active," 68/1, Office of this Paper.

QUALIFIED Assistant, 25, high-class Dispensing and Counter experience, desires position, London, South Coast, Paris. 67/13, Office of this Paper.

SHOULD THIS MEET THE EYE of any prospective employer able to utilise the services in a PERMANENT, PROGRESSIVE CAPACITY of a qualified Manager with 14 years' experience, Dispensing, Counter, Window-dressing and Photography, age 28, height 5 ft. 9½ in., married, he will receive interesting particulars if he will kindly write 64/13, Office of this Paper.

UNQUALIFIED; good experience, Dispensing, Counter, Photography; good references; now free; London only. "W.," 60 Manchuria Road, Westside, Clapham Common, S.W.11.

UNQUALIFIED; 33; married; 15 years' experience; Dispensing, Counter, Photographic; keen Salesman. Williams, 45 Holly Road, Chiswick, W.4.

YORK or Newcastle districts; unqualified; 26; excellent experience; Dispensing, Photo, Counter. Watson, 12 Cumberland Walk, Tunbridge Wells.

YOUTH, 18 (Part I), requires an Apprenticeship at a good-class Dispensing Chemist in London. 64/12, Office of this Paper.

ALL PUBLIC PHARMACISTS

should join at once

THE NATIONAL UNION OF DRUG & CHEMICAL WORKERS
(Incorporating the National Association of Chemists' Assistants)BENEFITS: Trade Protection—Legal Aid—Unemployment
Benefit—Free Use of Employment BureauWrite for particulars:—ARTHUR J. GILLIAN, Gen. Sec.
149 Newington Causeway, LONDON, S.E.1

WHOLESALE.

A SCOTSMAN (qualified), 18 years' experience, would like to represent English Drug or Sundries House in Scotland; salary and expenses; able to drive car; disengaged end of August; thoroughly acquainted with Scottish area and well known personally to the Pharmacists; reliable references. 67/31, Office of this Paper.

A DVERTISER desires position as Warehouse Manager or similar; 10 years' experience London Wholesale House. P.C.B. 58/36, Office of this Paper.

A SSISTANT, 24 years, nine years' Retail experience, desires position as Representative or Propagandist; active; West End; well known. 66/21, Office of this Paper.

B.S.C. PHARMACY (Part I) desires situation, Wholesale or Retail; conscientious and hard-working; anxious to commence immediately. "Student," 77 Miller Street, Manchester.

E NTERPRISING and successful Salesman, 28, 8 years' experience, well-established connection Northern Counties, own car, desires post with a high-class house only. Lee, "Cringewood," Elms Drive, Bare, Morecambe, Lancs.

G ENTLEMAN, 28, steady, reliable, desires permanent and progressive Representative post with well-known, well-established house; conversant with Pharmaceutical and Proprietary trade; 10 years' road experience; valuable connection amongst Chemists in Hants, Dorset, Wilts, Somerset, Devon, Cornwall; own car; disengaged September 14; salary, commission, expenses. 67/12, Office of this Paper.

L IVE Young Man, 4½ years' Retail experience, excellent references, employer's interests at heart, desires represent first-class House, preferably South Wales; salary, commission, expenses. Mayne, 12 Balmoral Road, N.W.2.

P HARMACIST, long-standing connection South-West and South Wales, is desirous representing first-class house; own car; advertiser is a proved salesman; terms by arrangement. 65/22, Office of this Paper.

Q UALIFIED, 24, male, keen, ambitious, desires position Wholesale House; Sales Management Department, Propaganda, etc.; express desire job in sales administrative capacity; smart appearance; requisite personality; previous experience Retail only; good education and references; moderate salary; any capacity to start; free; can drive car. Write 66/36, Office of this Paper.

R EPRESENTATIVE, 41, five years' excellent connection Chemists and Photo, South and East Coast, West of England, car driver, disengaged, desires to represent known House. "W. S.," 66/14, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

U NQUALIFIED; 32 years of age; good Retail experience; Paris or French Riviera or Italian Riviera. Apply 66/9, Office of this Paper.

FOR SALE.

4 LB. Pot. Iod., 15s.; 30 oz. Quin. Sulph., 1s. 6d.; 3 lb. Creosote Min. Pur., 1s. 6d.; 28 lb. Sulph. Sub., B.P., 3½d.; 9 x 4 oz. Breast Relievers, perfect (half price), 1s. each; 1 lb. orig. tin Capsicin Oleo Res., 10s.; 28 lb. Zinc. Sulph. Pur. Exsic., 5d.; Soda Fountain, Green of Philadelphia, complete with cylinder and rocker, cost £125, bargain £22; 6 Maw's Waterbeds, cost 112s. each, 30s. each (good condition). "Chemist," 97 Borough High Street, S.E.1.

MISCELLANEOUS.

M cADAM & TUCKNISS, Stock and Share Brokers and Dealers, Westminster Bank Chambers, Blackheath, London, S.E.3. Telephone: Lee Green 0081. Telegrams: McAdam, Blackheath. S.E.3. Bankers: Westminster Bank, Ltd., Blackheath, S.E.3. Shares for sale, free of commission (subject): 50 Allenburys "C" 6 per cent. Prefrs., 20s. 9d.; £300 Camwal 4½ per cent. Debs. 69; 53 Evans Lescher Prefrs., 5s. 6d.; 100 Idris "A" 6 per cent. Prefrs., 16s. 10½d.; 475 Lewis & Burrows Ord., 35s. 3d.; 1,000 Low Temperature Carbonisation (Coalite), 2s. 11d.; 60 Stevenson & Howell 6½ per cent. Prefrs., 20s. 10½d.; 500 G. B. Kent 5½ per cent. Prefrs., 12s. 3d. Wanted (subject): Idris Debs., Allenburys, Wright Layman Prefrs.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.

Why keep them any longer? Turn them into CASH.

I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

S. E. HACKETT, 23 July Road, Liverpool

NEW YORK Manufacturing Pharmaceutical House desires to secure the services of an EXPERIENCED CHEMIST in the manufacture of Drug Extracts and Alkaloids

WRITE IN STRICT CONFIDENCE, GIVING FULL DETAILS OF EXPERIENCE & SALARY REQUIRED

155/487, Office of this Paper.

C HEMISTS' FITTINGS.—Silent Salesman Cases, Druggists, Wallcases, Dispensing Screens, glass-front Counters, Perfume Cases, Window Enclosures, Glass Shelves, Mirrors, Counter Drawers. Before you decide send to GEORGE COOK, the well-known Chemists' Fitter, 27 Macclesfield Street, City Road, London, E.C.1.

FILTER Press, laboratory size, iron, side feed with separate run off taps, with or without pump. Vacuum Liquid Filter for small orifice glass bottles. Small Pump (belt drive) for compressed air and vacuum. Small Pump (bronze or Monel metal) for handling about 200 gallons liquid per hour. Storage Tank, 200 gallons each. 155/493, Office of this Paper.

FIRM of British Merchants requires expert advice on the layout and plant necessary for a small Toilet Soap Factory in the Transvaal. 155/484, Office of this Paper.

L IVERPOOL CHEMISTS' FITTERS.—A Chemist's Shop in our showrooms, fully fitted, including metal front with signs, etc., and window enclosures. No Chemist should miss this Exhibition. 40 pages Illustrated Catalogue on request. D. MATTHEWS & SON, Shop Fitters, 14/16 Manchester Street, Liverpool. Established 1848.

S ECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 219 Old Street, London, E.C.1.

S HOPFITTINGS.—Chemists requiring Shopfittings and Showcases of quality, backed by 105 years' experience, at to-day's lowest prices, should apply to PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, London, E.C.1. Telephone: Clerkenwell 2191. "Pharmacy Fitters for over a Century."

£60.—Heavy Mahogany Shop Fittings complete; 10 ft. Wall Fitting, with 48 glass labelled drug drawers and lockers; 9 ft. Glass-fronted Counter; 6 ft. Wallcase; 6 ft. Dispensing Screen, with mirror and cases; 10 ft. Wall-fitting Mahogany Shelves; 56 plain Drug Drawers; Perfume Case; also Patents at reduced prices. Powell, Chemist, Grange Town, Yorks.

£92 15s.—Set of Mahogany Fittings: 10 ft. Drug Run, 30 drawers (glass knobs and labels), shelves, cupboards and lockers; 10 ft. glass-fronted Counter, drawers at back; 8 ft. Wallcase, 6 ft. Dispensing Screen, Perfumery Showcase and Desk. Illustrations on request. Would separate. F. BERG, LTD., 336 Old Street, London, E.C.1.

EXCHANGE COLUMN.

FOR DISPOSAL.

FAIRBANKS' PERSONAL WEIGHING MACHINE; practically new; £6 10s.; seen any time. 55 Dorset Street, W.1.

HALF-PLATE CAMERA, with tripod, Thornton shutter, Taylor Hobson lens, F. 8, three double dark slides, in splendid condition, for any reasonable price. Apply Johnston, Chemist, Harlestown.

WANTED.

SECOND-HAND MATERIA MEDICA CABINET; complete; wood. Heywood, 97 High Street, Southend-on-Sea.

CARBOY STAND AND TILTER. State make. Albert Hagon Ltd., Cardiff.

NESTS OF DRAWERS, Dispensing Screen; must guaranteed delivery by September 10. 59/33, Office of this Paper.

GOWER, Chemists' Bookseller, 41 Voltaire Road, Clapham wants Pharmaceutical Books, including B.P., Pharmaceutical Formulas, B.P.C., P.J.F., Optical Books.

TRADE



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UMNEY'S PERFUME CONCENTRATES

FOR THE
INSTANTANEOUS PREPARATION
OF
CHOICEST PERFUMES

ROSETTOL

17/6 per oz.

A delicate fragrant Rose compound for Perfumes,
Toilet Preparations, Rose Water, etc.

*"Rosettol," first in the field, still holds first
place amongst the synthetic rose products.*

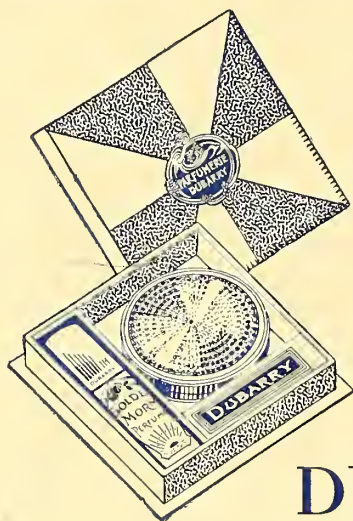
NEROLETTOL

7/- per oz.

A Substitute for Oil of Orange Flowers.

Samples will be sent on request.

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SOUTHWARK, LONDON

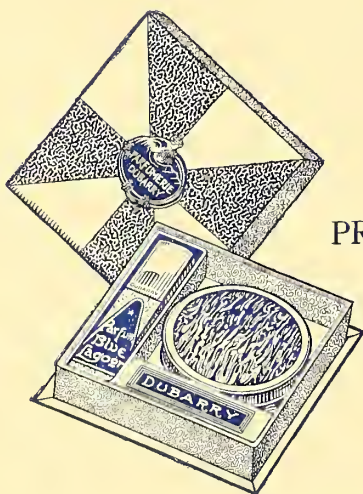


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COLOUR
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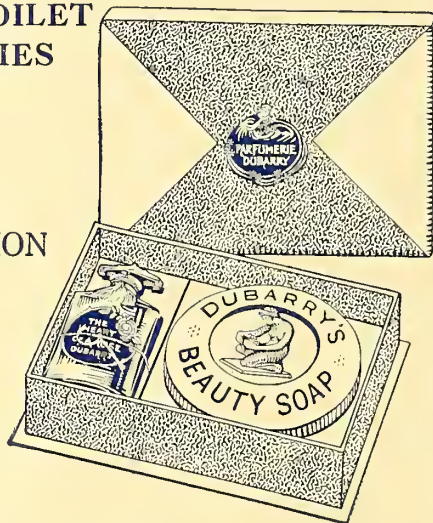


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